Animal Rat Strain Alb-CD Sex ♀ Age 471 days Diet CRLC+1% CO

Test 2yr. smoking Phase test Dose 100PPM .01% Wt Days

Observations: 4/21 eating nerve, chewing, short jerky convulsive-like movements - vaginal opaque pellet, irregular respiration

No. 64-120
MR No. 287

Test 437
Recovery

Weights
Initial 95
Intermediate 469
Final 491
T.I. E. Hillis
Ref. MR-287

Killed SE
Died Sacrificed Method CHCl3 Survival: d h m P.M. Time Change

General Condition Bilateral keratitis

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.09			Thym./N.F.			
Br./Sp.C.	2.04			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.40			Epd./Flm.				Adren.	.120		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.018		
Lungs	1.72			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.19			Es./Stom.	2.28			Bo./B.M.			
Spleen	0.6			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/Nc/Mo		1, 2	

1- Bilateral keratitis with vascularization

2- Eyes; middle ear infection, bilateral: purulent green exudate

GMZ Pathologist 9/1

Cause of Death: Date 7-7-66

HISTOPATHOLOGY

Pathologist

Date

EE-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

N 26417

DUP040003563

NECROPSY RECORD

Material LEAD ACETATE Gp. IV Excipient —

H. 4154
No. 69821
MR No. 787

Animal RAT Strain CH RCD Sex ♀ Age 532 days Diet GPLC + 1% CO

Test 2 YEAR FEEDING Phase TEST Dose 100 ppm Pb Days Test 497 Recovery

Observations: large (~ 6" in dia.) mass on left side has become necrotic on the surface.

Weights
Initial 106
Intermediate
Final 890

T.I. E.N. MILES
Ref. MR 787

Killed 8-31-66 SE
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.27			Thym./N.F.	—		
Br./Sp.C.	2.20			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	2.10	1		Epd./Fim.				Adren.	0.141	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.022	5	
Lungs	1.80			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	33.00	2		Es./Stom.	2.28			Bo./B.M.			
Spleen	4.10	3		Du./Je./Il.				(Sk.)/App.	457.40	6	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Capsule enlarged

2) Large + pale.

3) Large + dark.

4) Large + dark.

5) M. enlarged & dark red focus at eye.

8-31-66
Pathologist GM Zweicker
Date 8-31-66

Cause of Death: 6) Mass - nodular - red, brown & grey, firm. Necrotic surface, +

HISTOPATHOLOGY

occupying entire left mammary Gland. 15 X 10 X 7 Cm.

9/1/66

Pathologist
Date

EB-5420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003564

NECROPSY RECORD

Material GPTV Lead Acetate Excipient

H. 4154
No. 699221
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose 0.1% (1000 ppm) Pb GPTV Days

Test 93
Recovery

Observations:

Weights
Initial 103
Intermediate
Final 344
T.I. J. Carver
Ref MK-787

KILLED

Killed 7-22-65 SD Survival: P.M. Time
Died Method CH Cl3 d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.49			(Thym.)/N.F.	0.59		
(Br.)/Sp.C.	1.90			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.98			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.017		
Lungs	1.33			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	11.60			Es./(Stom.)	1.47			Bo./B.M.			
Spleen	0.43			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-22-65
G.Pol.
Pathologist William C. Krause
MAR 7-22-65 Date 7/22/65

Cause of Death:

HISTOPATHOLOGY

EH
7-23-65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003565

NECROPSY RECORD

Material Pb Acetate Gp II .01% Pb Excipient

Animal Rat Strain CRL:CD Sex F Age 779 Diet CRC + 1% CO

Test 24h feeding Phase test Dose .01% Pb 100 PPM Days

H. 4154
No. 69831
MR No. 787

Test 745
Recovery

Observations:
4/28 mass on left side 1½"
4/18 mass grown to 3" with necrotic surface
5/5 mass grown to 5½"

Weights
Initial 91
Intermediate 359
Final 920

T.I. Ellicks
Ref. MR 787

KILLED SD
Killed 5-5-67
Died Method CHCl3

Survival d h m
P.M. Time
Change

General Condition gr at once. Bleeding from vagina; animal very thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissues Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90	(6)		Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.75			Epd./Fim.				Adren.	0.006		
Tr./Ia./Br.				S.V./F.T.				Pit./Pin.	0.014	(5)	
Lungs	5.55	(1)		Pr. (4)		(3)		Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.30	(1)		Es./Stom.	2.20			Bo./B.M.			
Spleen	3.10	(2)		Du./Je./Il.				Sk./App.	544.00	(6)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) left lobe had bi-lobed, firm, yellow/tan nodule (3.5cm × 1.5cm × 1cm) (Calcium?) and surface, filled with creamy tan exudate, medium + right lobe had a few flat, irregularly shaped, gray-green foci on surface; (2) large spleen; (3) 1cm × 0.5cm × 0.5cm, firm, grainish nodule at anterior end of cervix; cut surface dark firm, dark red center; (4) 13.5cm × 9cm × 9cm, subcutaneous, lobulated, firm mass running along entire left mammary line; tissue was white to tan to purplish red

5-5-67 MR
Pathologist LM Zwicker
bmb Date 5-8-67

Cause of Death:

HISTOPATHOLOGY

(2) pituitary was very fatty

(3) medulla appeared dark brown (lobulated), cortex light brown

(4) large with marked margins

9H
5/17/67

Pathologist
Date

EE-3420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003566

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69835
MR No. 787

Animal Rat Strain CBR-CD Sex ♀ B.D. Age 3/12/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose H-4154 0.01% Gr. Dr. Days

Test 197
Recovery

Observations: teeth cut repeatly 6-65, 7-27-65, 8-24-65, 10-5-65 10-19-65

Weights
Initial 103
Intermediate
Final 290
T.I. Chi Tullis
Ref. MR-787

Killed 11-3 SP
Died KILLED Method CHCl3 Survival: d h m Change

P.M. Time

General Condition chromo; right eye ½ respiratory distress mild

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.09			(Thym.)/N.F.	0.21		
(Br.)/Sp.C.	2.01			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.91			Epd./Flm.				Adren.	0.081		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.014		
Lungs	1.54	①		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	9.60			Es./Stom.				Ba./B.M.			
Spleen	0.61			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① 1mm light brown focus on d. t.r. lung surface

Cause of Death:

Pathologist Gm Zinc MD
MMC
Date 11/3/65

HISTOPATHOLOGY

SH
11-4-65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003567

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient —

Animal Rat Strain CBR CD Sex F Age 776 Diet GPLC + 1% CO

Test 2 yr. feeding Phase Test Dose .01% Pb 100 PPM Days Test 742 / Recovery

H. 41514
No. G98445
MR No. 787

Observations

Weights
Initial 101
Intermediate 365
Final 492
T.I. E. Miles
Ref. 787-MR

Killed 5/2/67 SD
Died KILLED Method CH Clz

Survival: d ___ h ___ m ___

P.M. Time ___

Change ___

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	7.12	(1)		Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.		(2)		Thyr./P.T.	(4) →		
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.049	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Fin.	0.210	(5)	
Lungs	1.67			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.19			Es./Stom.	2.25			Bo./B.M.			
Spleen	0.75			Du./Je./Il.				Sk./App.	(3) →		
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Large, heavy - discolored pale tan - brown - very firm
(2) right ovary - small cyst
(3) milk pocket above perineal and mastillary area - bilateral ✓
(4) right thyroid enlarged - 0.6 × 0.30 × 0.20 cm. - left 0.40 × 0.25 × 0.15 cm.
(5) large heavy discolored dark red-brown
(6) slightly enlarged, discolored dark brown

Cause of Death:

b/b Pathologist E.M. Zuckies
Date 5/2/67

HISTOPATHOLOGY

1 chron. nephritis HF
Pit adenoma

QPS 5.12.67

Pathologist ___
Date ___

28-1420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003568

NECROPSY RECORD

Material: Lead Acetate Excipient:

H. 41154
No. 69848
MR No. 787

Animal: Rat Strain: CRL-CD Sex: ♀ Age: 8 D 3/17/65 Diet: GPLC + 1% CO

Test: 2yr. feeding Study Phase: test Dose: H # 41154 0.01% Pb Gr. IV Days: Test 197, Recovery

Observations: none

Weights: Initial 108, Intermediate, Final 387

T.I. Elgi Hubbs
Ref. MR-787

Killed 11-3 SD
Died KILLED Method: CHCl3 Survival: d h m P.M. Time Change

General Condition: NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.62			(Thym.)/N.F.	0.45		
(Br.)/Sp.C.	2.17			T./Ov.				Thyr./P.T.			
(Ht./B.V.	1.38			Epd./Fim.				Adren.	0.097		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.02		
Lungs	1.74	(0)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	14.56			Es./Stom.				Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD Omultiple red foci, 0.5mm to 1mm diam, in surface of all lung lobes.

11-3-65 GHH
Pathologist LM Zuckis
11-3-65 MS Date 11/3/65

Cause of Death:

HISTOPATHOLOGY

GHH 11-4-65

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003569

NECROPSY RECORD

Material: Lead Acetate Excipient: ———

H. 41154
No. 69552'
MR No. 787

Animal: Rat Strain: ARS-CD Sex: F Age: 407 days Diet: GPLC+1% CO

Test: 2 year feeding Phase: test Dose: Gp III .01% Pb Days: Test 373, Recovery ———

Observations: Mass posterior to left hind leg, solid, rigid 2" in diameter —

Weights: Initial 88, Intermediate 327, Final 348

T.I. E. Miles

Ref. Pb acetate 2yr study

KILLED SD

Killed / Died 4/28/66 Method: CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition: As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40	2		Thym./N.F.			~
Br./Sp.C.	1.85			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.20			Epd./Flm.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	1.44	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.50			Es./Stom.	1.45			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.	39.9	(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Rt. upper lobe consolidated

(2) Smooth clear cyst 2mm dia. surface left kidney

(3) Lobular mass located posterior to left hind leg - firm gray to red. 6×4.5×2.5 cm

(Extends nearly at trimming O.H. 5-25-66)

Cause of Death:

4-28-66 C.H.
Pathologist: G.M. Zwicker
Date: 4/28/66

HISTOPATHOLOGY

✓ 374
4/29/66

Pathologist ___
Date ___

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003570

NECROPSY RECORD

Material Gp IV Pb Acetate, .01% Pb Excipient —

Animal Rat Strain CR·CD Sex F Age 775 Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .01% Pb 100 PPM Days Test 741 Recovery

H. 4154
No. 69855
MR No. 787

Weights
Initial 95
Intermediate 377
Final 630

T.I. EKtl. =
Ref. NAB·787

Observations:

Continued wt loss from 3/28
3/1 possible mass position to rt parlay 2' *

* 1st noted

Killed 12-1-67 SD
Died KILLED Method $CHCl_3$ Survival: d h m Change

P.M. Time

General Condition As above, mass noted on left hind leg also right inguinal area

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.45			Thym./N.F.			
Br./Sp.C.	1.95			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.108	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.215	(2)	
Lungs	1.39			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.00			Es./Stom.	2.56			Bo./B.M.			
Spleen	0.99			Du./Je./Il.				Sk./App.		(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Dark with red sparkling

(2) dark red vascular mass 7 1×7×4 mm

(3) Mass 4.5 × 3.0 × 1.5 cm. firm, pinkish tan tissue ✓

5-1-67
MAR Lyn Zwicker
Pathologist
C.S.T. E.K.M. Date 12-1-67

Cause of Death:

HISTOPATHOLOGY

GJP
5/12/67

Pathologist
Date

EB-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003571

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 69873
MR No. 787

Animal Rat Strain CBR-CD Sex ♀ Age 407 days Diet GPLC + 1% CO

Test 2yr. feeding Phase test Dose Grp III .01% Pb Days Test 323 Recovery

Observations:

Weights
Initial 110
Intermediate 358
Final 402

T.I. E. Hitchcock
Ref. Pb-Acetate 2yr Study

Killed 4/25/66 SD
Died 4/25/66 Method CAGB

Survival: d h m

P.M. Time
Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.10			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.20			Epd./Fim.				Adren.	0.062		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.20			Es./Stom.	1.80			Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-28-66
CHH
Pathologist Dr Zwicker
Date 4/28/66

Cause of Death:

HISTOPATHOLOGY

SH
4/29/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003572

OFFICE

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69891
MR No. 787

Animal Rat Strain CHR-CD Sex ♀ Age 407 days Diet GPLC + 1% C.O.

Test 2yr. feeding Phase test Dose Gp IV .01% Pb Days Test 373 Recovery

Observations:

Weights
Initial 111
Intermediate 360
Final 412

T.I. E. Miles
Ref. 6 yr. Acetate 2yr Study

Killed 4/28/66 SD Survival: P.M. Time — General Condition Poor
Died KILLED Method CHCl3 d — h — m — Change —

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.30			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.090	2	
Tr./La./Br.				S.V./F.T.		1		Pit./Pin.	0.022		
Lungs	1.23			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.50			E./Stom.	1.70			Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red enlargement, right parotid tube - 1×1.5×1 Cm.

2) Large

4-28-66
CM
Pathologist S M Zucker
Date 4/28/66

Cause of Death:

HISTOPATHOLOGY

SM
4/19/66

Pathologist —
Date —

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003573

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient ———

Animal Rat Strain CR·CD Sex F Age 776 Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose .01% Pb 100 PPM Days

H. 4454
No. 69893
MR No. 787
Test 742
Recovery

Observations:

Weights
Initial 98
Intermediate 349
Final 655
T.: F Miller
Ref. MR·787

Killed 5/2/67 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition: blood in area of vagina

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.98			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.71			Epd./Fim.				Adren.	0.096		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.025		
Lungs	1.70			Pr./Ut.		(2)		Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.25	(1)		Es./Stom.	2.80			Bo./B.M.			
Spleen	0.95			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Pale brown

(2) Two fluid filled cysts in right uterine horn. 5 mm dia. & 10 mm dia. containing clear slightly yellow fluid plus blood (bleeding from vagina)

5-2-67 MRC

Cause of Death:

Pathologist Dm Gaekis
Exm Date 5/2/67

HISTOPATHOLOGY

Pathologist
Date

ER-8120 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003574

NECROPSY RECORD

Material Lead Acetate 1% Excipient —

H. 4154
No. 69 8774
MR No. 787

Animal Rat Strain CBL-CD Sex ♀ Age 559 Days Diet GPLC+ 12% CD

Test 2yr-feeding Phase Exp Dose .01% Pb Days { Test 575 / Recovery

Observations: extreme pallor, weight loss last 4 weeks

Weights
Initial 111
Intermediate 332
Final (340)
T.I. E. Miller
Ref. AP-787

KILLED SE

Killed — Survival: — P.M. Time — General Condition As above + listless

Died Sac. 9/27/66 Method CO2 d — h — m — Change —

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			Thym./N.F.	—		
Br./Sp.C.	1.98	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.41			Epd./Fim.				Adren.	0.103	3	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.158	4	
Lungs	1.26			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.58	2		Es./Stom.	1.68			Bo./B.M.			
Spleen	0.61			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Brn compressed ventrally - ? pituitary mass.

2) Pale, soft, lobular markings prominent.

3) Large.

4) Vascular mass, 0.6 Cm. dia.

9-27-66
C.H.
Pathologist William C. Princess

Cause of Death:

Date 9-27-66

HISTOPATHOLOGY

EH
9/28/66

Pathologist —
Date —

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003575

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69877
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 433 Diet GPLC + 1% C.O.

Test 2yr. feeding Phase test Dose 4000 ppm .01% Pb Days

Test 379
Recovery

Observations: Emaciated, extreme pallor; continuous weight loss

Weights
Initial 116
Intermediate 246
Final 225

T.I. R. Miles
Ref. MR-787

KILLED SE

Killed 5-24-66
Died
Method CHCl3
Survival: d h m
P.M. Time
Change

General Condition Moribund, v dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected.

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.30	3		Thym./N.F.	—		
Br./Sp.C.	2.09			T./Ov.	—			Thyr./P.T.			
Ht./(B.V.)	1.71	4		Epd./Fim.				Adren.	0.083		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	1.66			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.25	1		Es./Stom.	2.71			Bo./B.M.			
Spleen	1.44	2		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale yellow.
2) Large.
3) Large, pale, + granular.
4) Blood thin + very pale. ✓

5-24-66
Pathologist Lem Zuricker
Date 5-24-66

Cause of Death:

HISTOPATHOLOGY

S.F.J.
5/25/66

Pathologist
Date

EK-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003576

NECROPSY RECORD

Material Pb Acetate Gp II - .01% Pb Excipient —

Animal Rat Strain CDR OD Sex F Age 782 Diet APLC + 1% CO

H. 4154
No. 69901
MR No. 787

Test 2yr feeding Phase test Dose .01% Pb 100 ppm Days Test 748 Recovery —

Observations:

2/17 solid moveable mass 1" anterior to left hind leg
5/8 abscess on right hind leg

Weights
Initial 116
Intermediate 337
Final 668
T.I. Ethicko
Ref. MR 787

KILLED SD

Killed 5/8/67 Survival: d h m P.M. Time —
Died — Method CHCl3 Change —

General Condition: As above. Mass lacerated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.90			Epd./Fim.				Adren.	0.110	(5)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.038		
Lungs	2.20	(3)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.20	(3)		Es./Stom.	2.80			Bo./B.M.			
Spleen	2.20	(4)		Du./Je./Il.				Sk./App.	108.00	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Subcutaneous (8 x 5.5 x 5 cm.) semi firm lobulated white tissue, fleshy cut white oleomyx material
(2) Several areas of grayish, semi focal discolorations on surface
(3) Pale brown with prominent lobular markings, rounded margins, a few 3 to 5 mm dia. dark red brown, slightly depressed focal areas on surface & hepatic like.
(4) Large, slightly irregular
(5) Slightly enlarged, mottled brown

5-8-67
MR
Pathologist GM Zuckes
BB
Date 5/8/67

Cause of Death:

HISTOPATHOLOGY

Mammary fibroadenoma
Liver fatty change ++
Lab dept prolif ++
Kidney — ND

GH 5/17/67

Pathologist GS
Date 11-3-69

EK-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003577

NECROPSY RECORD

Material Pb Acetate Op IV .01% Pb Excipient —

Animal Rat Strain CR CD Sex F M Age 779 Diet Q PLC + 1% CO

Test 2yr feeding Phase Test Dose .01% Pb 100 PPM Days {Test 745 / Recovery —

H. 4154
No. 69707
MR No. 784

Observations:

Weights
Initial 110
Intermediate 365
Final 515
T.I. E Miller
Ref. KLR-787

KILLED SD

Killed 5-5-67 Survival P.M. Time —
Died — Method CO2 d h m Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.48			Thym./N.F.			
Br./Sp.C.	2.98			T./Ov.				Thyr./P.T.			
Ht./S.V.	1.95			Epd./Flm.				Adren.	0.170	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Fin.	0.046	(3)	
Lungs	1.89			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.30			Es./Stom.	2.30			Bo./B.M.			
Spleen	2.00	(1)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Slightly large and dark

(2) Mottled dark red brown, large

(3) Dark red focus at tip 2 mm Dia hypertrophic

5-5-67 C.H.
Pathologist [signature]
Date 5-5-67

Cause of Death:

HISTOPATHOLOGY

Kid - nephritis +
fatty change +
liver - fatty change +
Isle dest profile ++

5 IV 67

Pathologist [signature]
Date 10-7-68

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003578

Excipient _____

H. 4454
No. 69915
MR No. 787

Animal Rat Strain CLR:CD Sex F Age 775 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .01% Pb 100 PPM Days Test 714 Recovery _____

Observations:
Continued wgt loss from 1-31-67

Weights
Initial 99
Intermediate 374
Final 520
T.I. Emulsion
Ref. HLR-787

SD

Killed 5-1-67 Survival: P.M. Time _____ General Condition NAD
Died KILLED Method CHCl3 d____h____m____ Change _____

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes____ No____
Tissue Saved: Yes ✓ No____
Histology Follows: Yes____ No____

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.25			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.		(1)		Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.049	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.022		
Lungs	1.88			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.30			Es./Stom.	2.50			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) bilateral cystitis mild
(2) mottled dark-red brown

5-1-67
DVM Pathologist G. A. Zuricks
Cal. Exam Date 5-1-67

Cause of Death:

HISTOPATHOLOGY

5-2-67

Pathologist _____
Date _____

ER-8120 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003579

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient —

Animal Rat Strain CAR.OD Sex Female Age 776 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .01% Pb 100 PPM Days {Test 743 / Recovery}

H. 4454
No. 69833
MR No. 787

Observations: Culled since 4/7/66

Weights
Initial 105
Intermediate 298
Final 378
T.I. E Miles
Ref. MR 787

Killed 5-3-67 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.95			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.35			Epd./Fim.				Adren.	R. 0.160 L 0.036	(2) Rt.	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.36	(3)	
Lungs	1.48			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.55	(1)		Es./Stom.	2.30			Bo./B.M.			
Spleen	1.22			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Small, rounded margins, edges misshaped (scalloped) surfaces on all lobes roughened. Slgt to mlt. brown-red in color (mottled pale & dk) irregularly shaped areas of carbon deposits

(2) Right adrenal considerably enlarged & misshaped - darkened to light tan, semi firm

(3) 5mm Dia x 5mm High, dark red, semi firm

5-3-67 MAR
CLF Pathologist E M Zwicker
E.H.M. Date 5-3-67

Cause of Death:

HISTOPATHOLOGY

SD 5-11-67

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003580

NECROPSY RECORD

Material Lead Acetate Grp IV Excipient

H. 4154
No. 69939
MR No. 787

Animal RAT Strain CHR CD Sex ♀ Age B.D. 3.17.65 Diet GPLC + 1% CO

Test 2 year feeding Study Phase test Dose # 4154 0.01 % Pb Days Test 496 Recovery

Observations: moribund, left eye swollen

Weights
Initial 96
Intermediate
Final ~~496~~ 475

T.I. E.N. Miles
Ref. MR 787

Killed 8.29.66 SE Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition lacrimation + chromo. both eyes; right eye bulging slightly, left eye considerably swollen with living chromo. Forepaws reddened

Histology Recommended: Yes No Only Perineal region
Tissue Saved: Yes No discolored yellow brown.
Histology Follows: Yes No Otherwise normal

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.62			Thym./N.F.	0.69		
Br./Sp.C.	2.10	(1)		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.41			Epd./Fim.				Adren.	0.059	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.048	(5)	
Lungs	2.00	(2)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./T.			
Liver/G.B.	11.10			Es./Stom.	1.83			Bo./B.M.			
Spleen	0.56			Du./Je./Il.		(3)		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) rectal impression depressed upwards (pit mass).

(2) all lobes had irregular dark + light red-brown splotching or discoloration

(3) stomach + caecum abnormal, containing little food material; mucosa formed fine skin like

(4) adrenals pale

(5) pit. mass (partly vascular) dark red to red-brown, protruding upwards

Cause of Death ~~mass~~ on left side then on right side; region affected 3 cm x 5 cm.

8-29-66 mrf
Pathologist G M Zwicker
Date 8-29-66

HISTOPATHOLOGY

9/9
9/30/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003581

NECROPSY RECORD

Material Pb Acetate, Hpt 10% Excipient —

H. 41547
No. 689941
MR No. 787

Animal Rat Strain CFN-CD Sex ♀ Age 500 Days Diet 6PLC+10% CO

Test 546

Test 2yr feeding Phase test Dose 1% Pb 10000PPM Days

Recovery —

Observations: none

Weights
Initial 113
Intermediate 405
Final 480

T.I. 6 Mice
Ref. MR-787

Killed 10-18-66 SD
Died KILLED Method C Hel

Survival: d h m

P.M. Time —
Change —

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.48			Thym./N.F.	—		
Br./Sp.C.	2.11			T./Ov.	—			Thyr./P.T.			
Hr./B.V.	1.80			Epd./Fim.				Adren.	0.082		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.022		
Lungs	1.31			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.45			Es./Stom.	2.55			Bo./B.M.			
Spleen	0.85			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

Pathologist William C. Krause
MR 10-18-66 Date 10-18-66

Cause of Death:

HISTOPATHOLOGY

SH
10/19/66

Pathologist —
Date —

EK-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003582

NECROPSY RECORD

Material Bacetate .01% Pb 100 ppm Gp III Excipient ———

Animal Rat Strain Ak CD Sex ♀ Age 590 Days Diet 6% C + 1% CO

Test 2yr feeding Phase Test Dose .01% Pb 100 ppm Days

Observations: none

H. 41574
No. 69954
MR No. 787
Test 546
Recovery ———

Weights
Initial 98
Intermediate 501
Final 1074
T.I. E Miles
Ref. MR 787

Killed 10-18-66 5D
Killed Method CHCl3 d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition Well. Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.00	1		(Thym.)/N.F.	—		
(Br.)/Ep.C.	2.07			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.70			Epd./Fim.				Adren.	0.092		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.024		
Lungs	1.63			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	24.72			Es./(Stom.)	2.45			Bo./B.M.			
Spleen	1.12			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① cortex + medullary function incoordinated.

Pathologist William C. Krauss MR 10-18-66
Cause of Death ___ Date 10-18-66

HISTOPATHOLOGY

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

Pathologist ___
Date ___

DUP040003583

NECROPSY RECORD

Material Pb Acetate Cap #. 01% Pb Excipient —

Animal Rat Strain CLR.CD Sex F Age 778 Diet GPLC + 1% CD

Test 2 gen. breeding Phase test Dose .01% Pb 100 PPM Days Test 744 Recovery —

H. 41154
No. 69957
MR No. 787

Weights
Initial 96
Intermediate 359
Final 688

T.I. E Mueller
Ref. MR-787

Observations:

Continued wt. loss from 3/14

Killed 5/4/67 9P
Died KILLED Method CHCl₃ Survival d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes X No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50			Thym./N.F.			
Br./Sp.C.	2.35			T./Ov.				Thyr./P.T.			
Ht./B.V.	2.00			Epd./Flm.				Adren.	0.097		
Tr./Lo./Br.				S.V./F.T.				Pit./Pin.	0.030	0	
Lungs	1.69			Pr./Ut.				Sal./Loc.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.72			Es./Stom.	2.40			Bo./B.M.			
Spleen	0.89			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Ø dead, super. left side, one lung, flat, dark red foam in pits

5-4-67 MR

Pathologist Lm Zwicker

Cause of Death: Date 5/4/67

HISTOPATHOLOGY

5 12 67

Pathologist

Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003584

NECROPSY RECORD

Material Pb Acetate Lyo IV .01% Pb Excipient ———

Animal Rat Strain CD-COBS Sex ♀ Age 580 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .01% Pb 100 ppm Days

H. 4154
No. G9984
MR No. 781
Test 546
Recovery

Observations:

Weights
Initial 83
Intermediate 360
Final 662
T.I. E Nikas
Ref. MR: 781

Killed 10-18-66 5D
KILLED Method CHCl3 d h m
Survival:
P.M. Time
Change
General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.58			Thym./N.F.	—		
Br./Sp.C.	2.15			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	0.096		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023		
Lungs	1.30			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.01			Es./Stom.	2.10			Bo./B.M.			
Spleen	0.73			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

10-18-66
CAH
Pathologist William C. Rowe
MR 10-18-66 Date 10-18-66

Cause of Death:

HISTOPATHOLOGY

DFP
10/19/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003585

NECROPSY RECORD

Material Pb Acetate Gp III .01% Excipient —

Animal Rat Strain CFR OD Sex F Age 782 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .01% Pb 100 PPM Days

H. 4154
No. 69987
MR No. 787
Test 748
Recovery

Weights
Initial 108
Intermediate 351
Final 455
T.I. Eligible
Ref. HLR 787

Observations:

4/8 mass between forelegs 1" mass underneath left

hind leg 2" = double mass

KILLED SD

Killed 5/5/67 Survival: P.M. Time

Died Method CO2 d h m Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.30			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.58			Epd./Fim.				Adren.	0.080	②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024		
Lungs	1.51			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.10	①		Es./Stom.	2.50			Bo./B.M.			
Spleen	1.05			Du./Je./Il.				Sk./App.	④ 34.25 ⑤ 23.70	③	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Pale brown, lobular markings prominent

② Left large + vascular

③ ④ mass, mammary type 5×3.5×3 cm right upper pectoral group contains some watery like material

③ ⑤ " " " 7×6×2.5 cm left lower inguinal area

5-8-67 CW

Pathologist [signature]

Date 5/8/67

Cause of Death:

HISTOPATHOLOGY

9/1 5/9/67

Pathologist

Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003586

NECROPSY RECORD

Material Pb Acetate Gp IV - 1% Pb Excipient ———

Animal Rat Strain CR CD Sex F Age 782 Diet 6PLC + 1% CO

Test 2yr feeding Phase Act Dose .01% Pb 100 PPM Days Test 748 Recovery ———

H. 4154
No. 69988
MR No. 787

Observations:

Weights
Initial 111
Intermediate 346
Final 528

T.I. 6 Wks
Ref. MR-787

KILLED SD

Killed 5/7/67 Survival: d h m P.M. Time ———
Died ——— Method CHCl3 Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.60			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Flm.				Adren.	0.114	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.096	(2)	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.55			Es./Stom.	1.90			Bo./B.M.			
Spleen	0.80			Du./Ie./Il.				Sk./App.	2.00	(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Mottled dark red brown, Lft slightly larger & vascular

(2) Dark red vascular mass 1.5 cm in Dia.

(3) 1.5 cm in Dia. mammary type mass Lft upper inguinal area

5-9-67
Pathologist [signature]
Date 5/9/67

Cause of Death:

HISTOPATHOLOGY

Mammary papillary fibroadenoma

Adrenal: Telangiectasis

Pit: Adenoma

Nephritis +

Pathologist [signature]
Date 10.3.67

EX-2420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003587

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CR-CD Sex ♀ Age 407 day Diet Stock C.D. GPLC + 1%

Test 2yr. feeding Phase Test Dose Hp IV .01% Pb Days

H. 4154
No. 69996
MR No. 787

Test 373
Recovery —

Observations:

Weights
Initial 109
Intermediate 360
Final 448

T.I. E. Mellon
Ref. Pb Acetate 2yr Study

Killed KILLED 4/25/66 SV Died — Method CHCl3 Survival: d — h — m — P.M. Time — Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.15			Epd./Fim.				Adren.	0.014		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	1.20			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.90			Es./Stom.	2.05			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist Jim Zwicker
Date 4/25/66

Cause of Death:

HISTOPATHOLOGY

Pathologist —
Date —

BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003588

NECROPSY RECORD

Material Pb Acetate Grp II Excipient —

H. 4154
No. 70009
MR No. 787

Animal Rat Strain AR·CO Sex ♀ Age 699 days Diet 6PLC + 1% CO

Test 9 yr feeding Phase Test Dose .01% Pb 100 ppm Days Test 665 Recovery

Weights
Initial 110
Intermediate 281
Final 582 1/31/67
T.I. E. M. Miles
Ref. MR·787

Observations:
8-16-66 solid non-mam adenoma c left hind leg 1½" dorsum.
7-17-67 mass opened to 3" with necrotic surface
2-14-67 F. dead

FOUND DEAD

Killed Survival: P.M. Time overnight General emaciated/rigid cadaver
Died F.D. 2-14-67 Method — d h m Change advanced Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: some Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			✓	Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.			✓	Epd./Fim.				Adren.			✓
Tr./La./Br.				S.V./F.T.				Pit./Pin.		(1)	✓
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.			✓	Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App. mes		(2)	✓
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pit, slightly enlarged, soft, 2mm dia dark red focus on dorsal surface
(2) large subcutaneous mass, 13cm × 9cm × 5cm, firm tumor, white to gray-red with some light tan fluid material.

V

Pituitary - at trimming, not recognized as such. GH. 2-28-67

2-14-67 MAR
Pathologist Dm Zuckerman
Date 2-14-67

Cause of Death:

HISTOPATHOLOGY

GH
2/17/67

Pathologist
Date

WHITE—PATHOLOGY, FILE — BLUE—TOXICOLOGY, MICRO — PINK—TOXICOLOGY, GROSS

DUP040003589

NECROPSY RECORD

Material Pb Acetate Opt. 1.01% Pb Excipient ———

H. 4154
No. 70020
MR No. 787

Animal Rat Strain CLR CD Sex F Age 778 Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose .01% Pb 100 PPM Days Test 744 Recovery

Observations:
Continued wgt loss from 3/28
3/28 both eyes opaque appears to be blind —

Weights
Initial 104
Intermediate 369
Final 570
T.I. E. Hulse
Ref. MR 787

Killed SD Survival d h m P.M. Time
Died Method CHCl3 Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes ✓ No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.80			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./S.V.	1.82			Epd./Fim.				Adren.	0.241	(3)	
Tr./Lu./Br.				S.V. (F.T.)		(2)		Pit./Pin.	0.024	(4)	
Lungs	1.57			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.40	(1)		Es./Stom.	7.66			Bo./B.M.			
Spleen	1.18			Du./Je./IL.				St./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		(5)	

(1) Pale brown, lobular markings prominent, edges rounded, several dark red foci scattered all colon 2 to 5 CM
(2) One half to two thirds right anterior horn swollen, slightly firm, dark red, Remaining third consists of white firm mass 1.7 cm Dia
(3) Large, mottled dark red
(4) Dark red focus right anterior pituitary 2 mm Dia.
(5) Corneal opacity, bilateral

5-8-67 GH

Cause of Death CHCl3

Pathologist G. M. Tucker
Date 5/4/67

HISTOPATHOLOGY

RLD 5/11/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003590

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient ———

Animal Rat Strain CAR CD Sex ♀ Age 755 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .01% Pb 10 ppm Days Test 714 Recovery

H. 4454
No. 70024
MR No. 767

Observations:
Continuous wgt loss since 11-8-66
7/9/66 solid non-palpable mass 1" posterior to rt foreleg

Weights
Initial 85
Intermediate 330
Final 325 3/28
T.I. E Miller
Ref. MR-767

FOUND DEAD

Killed ———
Died 4-4-67 Method ——— Survival: d ___ h ___ m ___ Change adv.
P.M. Time ?
General Condition Pale cadaver, autolysis

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.		1		Kidney		3		Thym./N.F.			
Br./Sp.C.		P.M. Change		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.		P.M. Change	
Tr./La./Br.				S.V./F.T.		P.M. Change		Pit./Pin.			
Lungs	9.49	2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.	87.58	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Small amount of blood tinged fluid - source?
2) Mottled dark red-brown, heavy.
3) Hydronephrosis, right.
4) Mass - fusa - dark red-brown, nodular, posterior right foreleg. 7x5x4 Cm.

4-4-67
OW.
Pathologist GM Zuckerman
Date 4-4-67

Cause of Death:

HISTOPATHOLOGY

4/6/67

Pathologist ———
Date ———

EX-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003591

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4.54
No. 70029
MR No. 787

Animal Rat Strain Charles River Sex ♀ Age 407 days Diet GPLC+170 CO

Test 2 year feeding Phase test Dose Gp IV .01% Pb Days

Test 373
Recovery

Observations:

Weights
Initial 103
Intermediate 400
Final 568

T.I. Lead Acetate
Ref. Pb Acetate Exp Study

Killed SD
Died 4/28/66 Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.30			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.				Thyr./P.T.	0.022		
Ht./B.V.	1.50			Epd./Flm.				Adren.	0.063		
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs	1.53			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.30			Es./Stom.	2.55			Bo./B.M.			
Spleen	0.70			Du./Je./IL.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-28-66
C.H.

Pathologist Jim Zwicker
Date 4/28/66

Cause of Death:

HISTOPATHOLOGY

S-H
4/29/66

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003592

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient —

H. 4154
No. 70035
MR No. 787

Animal Rat Strain CbR-CD Sex F Age 776 Days Diet GPLC + 1% CO

Test 2yr-Feeding Phase Test Dose .01% Pb 100 PPM Days { Test 743 / Recovery

Observations:

Weights
Initial 103
Intermediate 348
Final 540
T.L. Emrich
Ref. NAR-787

Killed 5/3/67 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.90	(3)		Thym./N.F.			
Br./Sp.C.	2.21			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.71			Epd./Fim.				Adren.	0.055		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.051		
Lungs	1.90	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.68	(2)		Es./Stom.	3.25			Bo./B.M.			
Spleen	1.05			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) dark red foci scattered throughout all lobes 0.50 to 1.50 mm dia

(2) pale brown lobular markings prominent

(3) pale brown

5-3-67
Pathologist Emrich ✓
Cause of Death: CHCl3 Exp. Date 5/8/67

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003593

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient —

Animal Rat Strain C&R-CD Sex F Age 778 Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose .01% Pb 100 PPM Days

H. 4154
No. 700 5C
MR No. 787
Test 744
Recovery

Observations:

Weights
Initial NO
Intermediate 344
Final 625
T.I. E Weber
Ref. NAD-787

Killed ~~KILLED~~ SD
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor.)/Abd.		(1)		Kidney	3.60			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.				(Thyr.)/P.T.		~~#~~	
Ht./B.V.	1.80			Epd./Fim.				Adren.	0.088		
Tr./Lo./Br.				S.V./F.T.				(Pit.)/Pin.	0.060	(2)	
Lungs	1.87			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	20.10			Es./Stom.	2.80			Bo./B.M.			
Spleen	0.85			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one 1.8 cm dia. x 0.7 cm high, firm, white mass adherent to pectoral muscle (right side of chest)

(2) one 8 mm x 6 mm x 4 mm light vascular, darkened, pituitary mass (ruptured when removed from skull).

5-4-67 MMR
Pathologist [signature]
Date 5/4/67

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003594

NECROPSY RECORD

Material Np Acetate Hp III .01% Excipient —

Animal Rat Strain CR-CD Sex ♀ Age 8.5 Wks Diet 6 PLC + 1% C.O.

Test 2 yr feeding Phase test Dose .01% 100 ppm Days

Observations: weight loss from 7/5/66

H. 4454
No. 71060
MR No. 287

Test 545
Recovery

Weights
Initial 99
Intermediate 405
Final 322
T.I. E Miller
Ref. MR 287

Killed 10-18-66 SD
KILLED Method CHCl₃ Survival: d h m P.M. Time Change

General Condition Thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.42			Thym./N.F.	—		
Br./Sp.C.	1.91			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren.	0.071		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.031	(2)	
Lungs	13.81			Pr./Ut.				Sal./Lac.			
L.N.		(1)		Bl./Ur.				N./M./F.			
Liver/G.B.	9.58			Es./Stom.	1.40			Bo./B.M.			
Spleen	0.55			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) dark brown growth, right thorax with plaque pleural adhesion

(2) dark oral fissure in eye area.

10-18-66
Pathologist [signature]
10-18-66 Date 10-18-66

Cause of Death:

HISTOPATHOLOGY

10/19/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003595

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 70064
MR No. 787

Animal Rat Strain CRPCD Sex ♀ Age B.D. 3/17/65 Diet GPLC + 1% Ca

Test 2yr. feeding Study Phase Cont Dose H # 4154 0.01% Gr. IV Days

Test 197
Recovery

Observations: none

Weights
Initial 115
Intermediate
Final 356
T.I. Ca. Nutr.
Ref. MR-787

Killed 11-3 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.23			Thym./N.F.	.52		
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.11			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026		
Lungs	1.44			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	~~60/7~~ 10 MR 11-3-65			Es./Stom.				Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

✓

11-3-65
C.Y.N.

Cause of Death:

Pathologist Gm Zuckerman
MR 11-3-65 Date 11/3/65

HISTOPATHOLOGY

SH
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003596

NECROPSY RECORD

Material - Lead Acetate (GP IV) Excipient

H. 4154
No. 70067
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .01% (100 ppm) 26 Days (GP IV)

Test 93
Recovery

Observations:

Weights
Initial 118
Intermediate
Final 359

T.I. Joan Carver
Ref. CR-787

KILLED SD

Killed 7-22-65 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.25			Thym./N.F.	.92		
Br./Sp.C.	2.08			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.10			Epd./Fim.				Adren.	0.064		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	1.40			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.37			Es./Stom.	1.51			Bo./B.M.			
Spleen	0.77			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-22-65
G.V.S.
Pathologist William C. Krauss
MR 7-22-65 Date 7/22/65

Cause of Death:

HISTOPATHOLOGY

QS
7-22-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003597

NECROPSY RECORD

Material Pb Acetate Spr .01% Pb Excipient ———

H. 4454
No. 70076
MR No. 787

Animal Rat Strain CD/CD Sex ♀ Age 588 Days Diet 6%C + 1% CO

Test 2yr Leading Phase test Dose .01% Pb in drm Days Test 546 Recovery

Observations; 2/7/06 appears to have otitis media

Weights
Initial 181
Intermediate 407
Final 580
T.I. Ellis
Ref. MB-787

Killed 10-18-06 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.69			Thym./N.F.	—		
Br./Sp.C.	2.11			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.45			Epd./Fim.				Adren.	0.034		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.010	(1)	
Lungs	1.46			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.68			Es./Stom.	2.40			Bo./B.M.			
Spleen	0.67			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) dark, partly atrophied

10-18-06 CH. William C. Kaufman
Pathologist
MR 10-19-06
Cause of Death: Date 10-18-06

HISTOPATHOLOGY

SD 10/19/06

Pathologist
Date

EK-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003598

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient —

H. 4154
No. 70078
MR No. 787

Animal Rat Strain CD Sex ♀ Age 742 Days Diet GPLC + 1% CO

Test 2yr Feeding Phase Test Dose .01% Pb 100 PPM Days { Test 703 / Recovery

Observations:

1-3 palid unreadable mass posterior to rt forleg ½"
3-28 mass grown to 3" another new mass posterior to left forleg 2" impaired mobility

Weights
Initial 101
Intermediate 336
Final 659
T.I. E. Kelley
Ref. MR 787

Killed 3-29-67 SE
KILLED Method CHCl3 Survival: d h m P.M. Time Change

General 2 large masses, 1 anterior to right forleg (B) the other (A) posterior to left forleg, (B) size 2 x 1.5 cm, 1
Condition posterior left forleg size 2 x 1.5 cm

Histology Recommended: Yes No — post. to R. forleg, 1 ant. to R. leg
Tissue Saved: Yes ✓ No —
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.07			Thym./N.F.	0.61	(1)	
Br./Sp.C.	2.08			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.46			Epd./Flm.				Adren.	0.092		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.090	(2)	
Lungs	1.30			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.40			Es./Stom.	1.90			Bo./B.M.			
Spleen	1.27			Du./Je./Il.				Sk./App.		(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) thymus/lymph nodes (1) were greatly enlarged, thymus appeared atrophied
(2) pit. enlarged, 8 mm dia. x 5 mm high, firm consistency, red-brown in color
(3) 4 mucoid cysts in above order removed; (A) subcutaneous pocket containing definite muddy red-brown fluid, measures 7.5 cm dia. weighs 137.80 gms; (B) subcutaneous, firm gray-white to gray-pink tumor, measures 6.5 cm dia. weighs 112.60 gms; 2 small ones measured each 2.5 cm dia. MR 3-29-67

Pathologist D M Zwicker
Date 3-29-67

~~Cause of Death:~~ firm white tumor due subcutaneous

HISTOPATHOLOGY

Pituitary adenoma
Fibrosarcoma (subcut.)

8 M
3/31/67

Pathologist SC
Date 2 15 69

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003599

NECROPSY RECORD

Material Pb Acetate GP II .01% Pb Excipient —

4154 MR 6-20-67
H. 4456
No. 70083
MR No. 787

Animal Rat Strain CLR-CD Sex F Age 776 Days Diet GPLQ + 1% CO

Test 2yr feeding Phase test Dose .01% Pb 100 PPM Days Test 743 Recovery —

Observations:
Continued wt loss from 7/14

Weights
Initial 99
Intermediate 342
Final 230
T.I. Killed
Ref. MR 787

Killed 5/3/67 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time — Change —

General Condition thin, pale, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.70			Thym./N.F.			
Br./Sp.C.	2.01	(1)		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.01			Epd./Fim.				Adren.	0.086		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.480	(2)	
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.05			Es./Stom.	2.28			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale yellow, base compressed by pituitary mass

(2) dark red vascular mass 1.2 × 0.6 × 0.5 cm dim

✓

5-3-67 CH
Pathologist Geo Zwicker
CH CHW Date 5/9/67

Cause of Death:

HISTOPATHOLOGY

RH 5-12-67

Pathologist —
Date —

EH-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003600

NECROPSY RECORD

Material Pb Acetate Gp IV .01% Pb Excipient ———

H. 4454
No. 70086
MR No. 787

Animal Rat Strain CAR CD Sex F Age 777 Diet GPLP + 1% CO

Test Life feeding Phase Test Dose .01% Pb 100 PPM Days

Test 745
Recovery ———

Observations: 5/5 solid mass posterior right hind leg 1"

Weights
Initial 113
Intermediate 485
Final 718

T.I. E.K. Rider
Ref. HA-787

KILLED

Killed 5-5-67 SD Survival: P.M. Time ———
Died ——— Method CHCl3 d h m Change ———

General Condition Oedema

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.48	(3)		Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.95			Epd./Fim.				Adren. L 0.090 R 0.096	0.126	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026		
Lungs	1.90	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.60			Es./Stom.	2.15			Bo./B.M.			
Spleen	1.55	(2)		Du./Je./Il.				Sk./App.	78.80	(5)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Few scattered areas of consolidation
(2) Slightly large and dark red
(3) Brown, surface, slightly irregular
(4) Large (left), dark red brown
(5) Mass mammary type, right lower pectoral group (fused with [illegible] like material)

5-5-67 GM
Pathologist GM Zuncker
BMD Date 5-9-67

Cause of Death:

HISTOPATHOLOGY

mammary fibroadenoma

5-12-67

Pathologist [illegible]
Date 11-3-67

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003601

NECROPSY RECORD

Material Pb Acetate Hpt. Excipient —

Animal Rat Strain CR:CD Sex M Age 667 Diet GPLC+1% CO

H. 4954
No. 69424
MR No. 787

Test 2yr. feeding Phase Test Dose .05% Pb 500 PPM Days {Test 633 / Recovery

Observations: Continued weight loss since 9/27/66

Weights
Initial 123
Intermediate 705
Final 525 1/2
T.I. E. Miles
Ref. MR. 787

Killed FOUND DEAD Survival: P.M. Time overnight! General rigid cadaver; thin, dehydrated;
Died F.D. 1-11-67 Method — d h m Change advanced Condition fixed cond. mouth open, tongue protruded

Histology Recommended: Yes No
Tissue Saved: Some Yes X No red-brown.
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)	✓	Thym./N.F.			
Br./Sp.C.				(1) Ov.		(3)	✓	Thyr./P.T.		(5)	✓
Ht./S.V.				Epd./Fim.				Adren.		(6)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				BL/Ur.				N./M./F.			
Liver/G.B.		(1)	✓	Es. (Stom.)		(4)	✓	Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) slightly enlarged

(2) pale tan; granular, enlarged, slightly cystic

(3) cysts in epididymal cord were injected

(4) three crater-like, 0.4 cm diam, focal areas of erosion in squamous mucosa; red-brown fluid in stomach,

(5) parathyroids were enlarged

1-13-67
Pathologist William C. Krauer
Date 1-13-67

Cause of Death:

HISTOPATHOLOGY

(2) enlarged & pale

9/8

1/16/67

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003602

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 41154
No. 69427
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 462 days Diet GPLC + 1% Ca

Test 428

Test 2yr. feeding Phase Test Dose 500 PPM in 5% Ca Days
Gr. V

Recovery

Observations: Continuous weight loss

Weights
Initial 118
Intermediate 632
Final 492
T.I. E. Miller
Ref. Dr. Archfield 2yr Study

FOUND DEAD

Killed —
Died 6-22-66 Method —

Survival: d h m

P.M. Time overnight +
Change ader.

General Condition Pale, flaccid carcass. Dehydrated.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./(Abd.)		1		Kidney		3 ✓		Thym./N.P.			
Br./Sp.C.				T./Ov.				(Thyr./P.T.)		✓	
Ht./(B.V.)		2 ✓		Epd./Flm.				Adren.			
Tr./La./Br.				S.V./P.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./(B.M.)		✓	
Spleen				(Du)/Je./Il.		✓		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Full of blood tinged fluid + clotted blood.

2) Numerous blue nodules along duodenum. (arterial) Possible rupture of - re- hemorrhages.

3) Large, pale + granular.

(✓) tissue saved.

6-22-66
C.H.
Pathologist

Cause of Death:

Date 6-22-66

HISTOPATHOLOGY

Pathologist —
Date —

Ex. 6420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003603

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

Animal Rat Strain CD-CD Sex M Age 680 Days Diet 6PLC+1% CO

Test 2yr-feeding Phase test Dose .05% Pb .500 PPM Days

Observations: none observed —

II
H. 4454
No. 69428
MR No. 787

Test 646
Recovery

Weights
Initial 114
Intermediate 680
Final 960 1-17-67
T.I. E.K. Miller
Ref. NR 787

FOUND DEAD

Killed Survival: P.M. Time overnight General Condition Obese.
70 Died 1-26-67 Method d h m Change abs.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓	?	Thym./N.F.			
Br./Sp.C.		Ph.		T./Ov.		3 ✓		Thyr./P.T.		✓	
Ht./B.V.		✓		Epd./Fim.		Ph.		Adren.		Ph. ✓	
Tr./La./Br.		Ph.		S.V./F.T.				Pit./Pin.			
Lungs		1 ✓	1	Pr./Ut.		Ph.		Sal./Lac.		Ph.	
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	59.72	2 ✓	1	Es./Stom.				Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Multiple red foci - throughout all lobes. 0.5 - 2.5 mm dia.

2) Huge - lobules making prominent. Multiple yellow foci - all lobes. 0.1 - 0.7 Cm dia. Firm, cross cut section.

3) Large & left

(✓) Tissue saved.

1-26-67 OSW. William C. Krause
Pathologist
Cause of Death: Date 1-26-67

HISTOPATHOLOGY

1. Reticulum cell sarcoma, ~~possibly~~ most likely from liver to lung.
2. Chronic glomerulonephritis +++

Pathologist
Date 2-28-67

EK-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003604

NECROPSY RECORD

GPV
Material Lead Acetate Excipient

H. 4154
No. 69441
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase Test Dose .05% (500 ppm) Pb Days Test 92 Recovery
GTI

Observations:

Weights
Initial 114
Intermediate
Final 485
T.I. J. Casel
Ref. MR-787

Killed 7-21-65 SD
Died KILLED Method CH_2Cl_2 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.28			Thym./N.F.	0.79		
Br./Sp.C.	2.00			T./Ov.	3.99			Thyr./P.T.			
Ht./B.V.	1.41			Epd./Fim.				Adren.	0.052		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.84			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.20			Es./Stom.	1.92			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/Na/Mo			

NAD

Pathologist William C. Krumm
Date 7/21/65

Cause of Death:

HISTOPATHOLOGY

E PS
9-22-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003605

NECROPSY RECORD

Material Pb Acetate Gp II .05% Pb Excipient —

H. 4154
No. 694444
MR No. 787

Animal Rat Strain CDR-CD Sex M Age 744 Diet 6 DLC + 17% CO

Test 2 yr feeding Phase test Dose .05% Pb 500 PPM Days { Test 710 / Recovery

Observations:
Continuous exp has since 1-17-67
3/31 pallor, emaciated – began bleed

Weights
Initial 738
Intermediate 640
Final 532 3/30

T.I. E.H. Mueller
Ref. MR-787

FOUND DEAD

Killed —
Died 5-31-67 Method —
Survival: d h m
P.M. Time ?
Change mod

General Condition Pale, rigid cadaver, thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.		1		Kidney		3	4	Thym./N.F.			
Br./Sp.C.				T./Ov.		4	1	Thyr./P.T.			
Ht./S.V.			3	Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		2	2	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Full of clear fluid (Pleural effusion)
2) Dark red & edematous
3) Large, pale areas, surface & granular.
4) Small, soft & dark.

3-31-67
Pathologist EM Zwicker
Date 3/31-67

Cause of Death:

HISTOPATHOLOGY

1. atrophy + and arteritis ++
2. congestion +++; hemosiderin ++; alveolar edema ++.
3. focal fibrosis +
4. chronic glomerulonephritis +++; fibrinoid necrosis and foci of glomeruli ++; tubular hyperplasia +++;

9/11 4/3/67

Pathologist EM
Date 5-18-67

Ex. 3420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003606

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 41541
No. 69455
MR No. 787

Animal Rat Strain CRL-CD Sex ♂ Age 405 days Diet 6PLC + 1% CO

Test 2yr feeding Phase test Dose Up to .05% Pb Days Test 371 Recovery

Observations:

Weights
Initial 114
Intermediate 652
Final 725
T.I. C. Hicks
Ref. 2yr Pb Acetate Study

Killed 4-26-66 SD
KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.31			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.22			T./Ov.	3.00	(2)		Thyr./P.T.			
(Ht.)/S.V.	1.73			Epd./Flm.				Adren.	.085		
Tr./La./Br.	—	—		S.V./F.T.				(Pit.)/Pln.	.014		
Lungs	3.68	(3)		Pr./Ut.				Sal.(Lac.)		(1)	
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	18.61			Es.(Stom.)	2.70			Bo./B.M.			
Spleen	0.78			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) parotid gland.

(2) left testicle was small (1.18gm), soft and dark (right 1.82gm).

(3) ½ of left lung is firm, dilated red-brown, dilated + contains a clear tenacious material. lungs heavy

Cause of Death:

Pathologist G M Zwicker
MAR 4-27-66 Date 4-27-66

HISTOPATHOLOGY

PJL
4/27/66

Pathologist ___
Date ___

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003607

NECROPSY RECORD

Material Pb Acetate .05% Pb ~~SD~~ Lot II Excipient ———

Animal Rat Strain CD-1 Sex ♂ Age 579 Days Diet GPLC + 1% CD

Test 2yr feeding Phase test Dose .05% Pb 500 ppm Days Test 545 Recovery ———

Observations: weight loss from 9/13/66

H. 4154
No. C9463
MR No. 787

Weights
Initial 111
Intermediate 610
Final 742
T.I. E. Nelson
Ref. NAG-787

Killed 10-17-66 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Cold abscess 10cm diameter (back) Animal died in slight rigor

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.25	(1)		(Thym.)/N.F.	—		
(Br.) Sp.C.	2.31			(T.)/Ov.	3.90			Thyr./P.T.			
(Ht.)/S.V.	2.30			Epd./Fim.				Adren.	.060		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.014		
Lungs	2.08			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	22.92			Es./(Stom.)	3.11			Bo./B.M.			
Spleen	1.92			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Mottled - red brown, coarse on cut section

Cause of Death

10-17-66
C.S.P.
Pathologist William C. Krauss
M.M.R. 10-17-66 Date 10-17-66

HISTOPATHOLOGY

S.S.P.
10/19/66

Pathologist ———
Date ———

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003608

NECROPSY RECORD

Material GP V Lead Acetate Excipient

H. 4154
No. 69467
MR No. 787

Animal rat Strain CbR-CD Sex ♂ Age 158 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .05% (500ppm) Pb GP V Days Test 124 Recovery

Observations:

Weights
Initial 104
Intermediate 650
Final

T.I. Joan Carew
Ref. MR - 787

Killed FOUND DEAD Survival: P.M. Time General Condition stiff cadaver
Died Found 3/03/65 Method d h m Change punched

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No ✓
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Flm.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				St./App.			
Pancreas				Ce./Co./Re.				Ey/Er/No/Mo			

Autolysed Pit-decay Autolysed Pancreas Autolysed Lt. Lung

No tissue saved. No tissue weighed. NO TISSUE SAVED

Advanced post mortem change

Cause of Death:

Pathologist GM Zurcher
Date 8-23-65

HISTOPATHOLOGY

SPS
9/24/65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003609

NECROPSY RECORD

Material Pb Acetate Gp II .05% Pb Excipient —

H. 41534
No. 69468
MR No. 787

Animal Rat Strain Oak CD Sex M Age 727 Days Diet 6 PLC + 1% CO

Test 2yr. feeding Phase Test Dose .05% Pb 500 PPM Days Test 693 Recovery

Observations:
Continuous weight loss since 8/30

Weights
Initial 123
Intermediate 790
Final 618 3/28
T.I. E. H. Adelle
Ref. HR. 787

FOUND DEAD

Killed — Survival: P.M. Time ?
Died Found Method — d — h — m — Change Mod.
General Condition Path - Chromodacryorrhea.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.		•	
Br./Sp.C.				T./Ov.				(Thyr./P.T.)		4	
Ht./B.V.		1		Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				(Pit./Pin.		5	
Lungs	10.00	2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - rigid.
2) Mottled red & white, hyperinflated, moist, heavy.
3) Large, pale brown
4) Permanent
5) Hypertrophic (pale brown)

3-14-67
OM.
Pathologist Leo Zirkle
Date 3-14-67

Cause of Death:

HISTOPATHOLOGY

9 pp
3/16/67

Pathologist
Date

EX-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003610

NECROPSY RECORD

G. II

Material: Pb acetate .05% Pb Excipient: _____

Animal: Rat Strain: CFE-CD Sex: ♂ Age: 598 Days Diet: 6PLC+1% CO

Test: 2yr feeding Phase: Test Dose: .05% Pb 500 PPM Days: Test 564 Recovery: _____

H. 4154 ✓
No. 69428
MR No. 787

Observations:

Weight loss since 9/12/66.

Weights
Initial 105
Intermediate 700
Final 10/25 815
T.I. E. Wilks
Ref. MR-787

FOUND DEAD

Killed _____ Died _____ Method _____ Survival: d ____ h ____ m ____ P.M. Time _____ Change _____

General Condition: Diff cadaver

Histology Recommended: Yes ____ No ____
Tissue Saved: Yes ✓ No ____
Histology Follows: Yes ____ No ____

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor./Abd.)		1.		Kidney	24.2	7.	4	Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
(Ht./B.V.)		2.	1	Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		3.	6	Pr./Ut.				Sal./Lac.			
L.N.		4.		Bl./Ur.				N./M./F.		9.	
Liver/G.B.		5.	2	Es./(Stom.)			5	Bo./B.M.			
Spleen			3	Du./Je./Il.		8.		Sk./App.			
Pancreas		6.		Ce./Co./Re.				Ey/Ea/No/Mo			

1. filled with blood tinged fluid.

2. 3 3-5mm circular areas on ventricular wall (optimal) that appear to be a thin area in the myocardium.

3. Several 1-2 mm yellow nodules in pancreas

4. Nodes in thyroid region were greatly enlarged

5. Large friable, and yellow.

Cause of Death:

Pathologist: William C. Rowe
Date: 11-7-66

HISTOPATHOLOGY

6. Nodular and firm.

7. Large +++, filled with reddish brown fluid - very little normal kidney tissue remained. Inside of kidney had a cauliflower appearance with many proliferative nodules ranging in size from pin point to 5 mm+.

8. Cloudy fluid with proventriculus and stomach.

9. All body fat was bright yellow.

Histo: 1. focal fibrosis +++

2. focal necrosis ++

3. bone deposits +++ hyperplasia +++

4. Nephrosclerosis +++ (10 years) Tumor hyperplastic nodules Chronic glomerulonephritis +++

5. hyperplasia

6. Tumor cells.

7. hyperplasia, Renal Squamous Cell Ca. metastatic to nodes (mainly) present in peritoneum lymphatics

Pathologist: [illegible]
Date: 6-10-67

11/8/66

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003611

NECROPSY RECORD

Material Pb acetate Gp I .05% Pb Excipient ———

H. 41154
No. 69479
MR No. 787

Animal Rat Strain CAR CD Sex M Age 748 Days Diet GPLC + 1% CO

Test Exp. feeding Phase Test Dose .05% Pb, 500 PPM Days Test 714 Recovery

Observations:
none visible
intermittent wgt loss

Weights
Initial 108
Intermediate 600
Final 660
T.I. E-Killed
Ref. MR 787

Killed 4-4-67 56 Survival: P.M. Time ——— General Condition MOD.
Died KILLED Method CHCl3 d h m Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	7.50	1	2	Thym./N.F.	—		
Br./Sp.C.	2.40			T./Ov.	3.50		3	Thyr./P.T.			
Ht./B.V.	~~554~~ 1.X			Epd./Fim.				Adren.	0.098	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.035	3	
Lungs	2.04			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.50		1	Es./Stom.	3.75			Bo./B.M.			
Spleen	0.9			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pelvis, surface granular. Hydronephrosis, bilateral.
2) Large
3) Large

4-4-67
CRL
Pathologist JM Zwickis
Date 4-4-67

Cause of Death:

HISTOPATHOLOGY

1. fatty change, focal +
2. chronic glomerulonephritis +++, fibrosis ++; tubular dilatation and hyperplasia +++; lymphocytes +++.
3. arteritis +

8ff
4/6/67

Pathologist SGJ
Date 5 16 67

EL-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003612

NECROPSY RECORD

Material Pb acetate Hg IV .05% Pb Excipient ———

H. 4154
No. C9486
MR No. 787

Animal Rat Strain CAR-LO Sex ♂ Age 579 Days Diet GMCH 2% CO

Test 24 fasting Phase Test Dose .05% Pb 500 ppm Days {Test 545 Days / Recovery ———

Observations: None

Weights
Initial 113
Intermediate 587
Final 742
T.I. E. Mills
Ref. MR-787

Killed 10-17-66 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time ——— Change ———

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.89			Thym./M.F.	—		
Br./Sp.C.	2.28			T./Ov.	3.53			Thyr./P.T.			
Ht./B.V.	2.40		1	Epd./Fim.				Adren.	.049		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.024		
Lungs	3.20		2	Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.65			Es./Stom.	2.80			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

Pathologist William C. Rowe
Date 10-17-66

Cause of Death:

HISTOPATHOLOGY

1. focal fibrosis ++

2. cerebral edema +++

Liver kidney anomaly?

WMP 10/19/66

Pathologist WMP
Date 5-9-67

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003613

NECROPSY RECORD

Material Pb Acetate Hat 05% Pb Excipient —

Animal Rat Strain CD Sex ♂ Age 617 Days Diet GPLC + 1% Ca

Test 8 yr. feeding Phase test Dose .05% Pb 500 PPM Days

H. 4154
No. 69405
MR No. 787

Test 683
Recovery

Weights
Initial 114
Intermediate 602
Final 11/22 822
T.I. 6.8 Mills
Ref. HR-787

Observations:
Continuous weight loss since 7/9
98 gr. lab deliveries 11/8 - 11/22

FOUND DEAD

Killed — Survival: — P.M. Time 3 days

Died F.D. 11-25-66 Method — d — h — m — Change advanced

General Condition rigid, decided cadaver; thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(3) ✓		Thym./N.F.			
Br./Sp.C.				(T.)Ov.		(4) ✓		(Thyr./P.T.)		(5) ✓	
(Ht.)/B.V.		(1) ✓		Epd./Pim.				Adren.		(6) ✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		(2) ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver) G.B.		✓		Es./Stom.				Bo./S.M.			
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ee/No/Mo			

(1) rigid aorta

(2) several 0.5 mm to 1.0 mm diameter, white-gray, slightly raised foci on surface of lung

(3) portion of kidney (right) not observed by P.M. changes was fatty tan, granular externally and internally

(4) testes very small + soft

Cause of Death:

11-28-66
Pathologist D Zwickler
Date 11-28-66

HISTOPATHOLOGY

(5) parathyroids were enlarged
(P.M. change fatty well advanced)

(6) adrenal enlarged

11/30/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003614

NECROPSY RECORD

Material Pb acetate Gp II 05% Pb Excipient —

Animal Rat Strain CRL-CD Sex ♂ Age 617 Days Diet GPLC+1%C

Test 2yr feeding Phase test Dose .05% Pb 5000PPM Days

H. 4154
No. 69527 9
MR No. 787
Test 587
Recovery

Weights
Initial 105
Intermediate 678
Final 350 11/22
T.I. E Meier
Ref. HLR-787

Observations:
Continuous weight loss from 9/24
75% weight loss from 11/8 – 11/22

FOUND DEAD

Killed — Survival: P.M. Time 4 days
Died 11/22 Method — d h m Change advanced
General rigid to flaccid cadaver, some Condition red-brown discoloration of forearms

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes — No — eye, mouth, upper respiratory; Tissue Saved: Yes ✓ No — Histology Follows: Yes — No — femoral region; duodenal cadaver skin

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)	✓	Thym./N.F.			
Br./Sp.C.				(T.)Ov.		(3)	✓	Thyr./P.T.		(4)	✓
(Ht./B.V.)		(1)	✓	Epd./Flm.				Adren.		(5)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.			✓	Es./Stom.				Bo./B.M.			
Spleen			✓	Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① slightly rigid aorta

② right kidney enlarged (3 CM × 2.5 cm approx.) with almost all of internal portion cystic like + filled with coarse granular like, grey-tan material; left kidney contained small (0.5 cm dia.) cystic like structure filled with fine granular like, grey-tan material; both kidneys were very dark red-black (partially autolyzed).

11-28-66
Pathologist H. Zurcher
Date 11-28-66

Cause of Death:

HISTOPATHOLOGY

③ Lt. kidney – cyst

④ pancreatic acinar atrophy

(P.M. changes partly from advanced)

⑤ pituitary enlarged

EDP

adenoma, Kidney advanced P.M. change 12/31/66

Adenoma Lung ++

Mesa-T. hyperplasia ++

Pathologist EDP
Date 7 30 69

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003615

NECROPSY RECORD

Material Pb Acetate Hpt Excipient —

Animal Rat Strain CR-CD Sex ♂ Age 597 Diet GPLC+12% CO

Test 2yr feeding Phase Tech Dose .05% Pb 500ppm Days Test 563 Recovery

H. 4457
No. 695336
MR No. 787

Observations: Continuous weight loss since 5/2/66

Weights
Initial 112
Intermediate 775
Final 11/25 465
T.I. E. Miller
Ref. MR-787

FOUND DEAD

Killed
Died F.D. 11-4-66 Method — Survival: d h m Change P.M. Time

General Condition moderately stiff cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3.	3	Thym./N.F.			
Br./Sp.C.				T./Ov.		4	6	Thyr./P.T.		5.	
Ht./B.V.				Epd./Flm.				Adren.		5.	
Tr./La./Br.				S.V./F.T.				Pit./Pin.		1.	5
Lungs		2.	2	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.			4	Es./Stom.		6.		Bo./B.M.			
Spleen			1	Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 3-5 mm. nod vascular mass.
2. Lung with 2-3 mm dark red foci.
3. Enlarged ++, yellow color, firm consistency, granular roughened surface.
4. Small
5. Thyroid and parathyroid enlarged +++

Pathologist William C. Krause
Date 11-4-66

Cause of Death:

HISTOPATHOLOGY

1. Sparsely and glandular mucosa thickened ++
2. Lungs ++ and scarred with black & white 1-2 mm foci.

++ ists:

1. depletion of lymphocytes +++ EH 11/7/66
2. congestion +++; edema ++
3. Chronic glomerulo nephritis +++; prox. tubular dilatation +++; glomerular fibrosis +++; inclusions ++.
4. Congestion ++; prominent nucleoli ++; hemosiderin ++.
5. Chromophobe adenoma
6. atypia ++; artefact

Pathologist EH
Date 5/10/67

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY, GROSS

DUP040003616

NECROPSY RECORD

Material: Lead Acetate Exp II Excipient: ____

H. 4454
No. 69546
MR No. 787

Animal: Rat Strain: CR-CD Sex: ♂ Age: 523 Days Diet: GR-1 + 1% CO

Test: 2yr. feeding Study Phase: Test Dose: .05% Pb 500 PPM Days: Test 482, Recovery ____

Observations:
Continuous weight loss

FOUND DEAD

Weights: Initial 111; Intermediate 660; Final 414 & 424 gms
T.J. E. Miller
Ref. NCR-787

Killed ____ Died 8-22 Method ____ Survival: d ____ h ____ m ____ P.M. Time Overnight+ Change 1 D. adv.

General Condition: Thin, blue coloring, peripheral congestion & dehydration

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ____ No ____
Tissue Saved: Yes ✓ No ____
Histology Follows: Yes ____ No ____

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor)/Abd.		2		Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./(S.V.)		1 S.V.		Epd./Fim.		P.M. Change		Adren.		P.M. Change	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		P.M. Change		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta stiff.

2) Pleural effusion

(v) tissues saved.

8-22-66
Pathologist William E. Travis
Date 8-22-66

Cause of Death:

HISTOPATHOLOGY

8/23/66

Pathologist ____
Date ____

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003617

NECROPSY RECORD

Material Pb Acetate GpT .05% Excipient —

H. 4154
No. 695-48
MR No. 787

Animal Rat Strain CbR-CD Sex M Age 5 748 Diet GPLC+1% CO

Test 2yr feeding Phase Test Dose .05% Pb-5000PPM Days { Test 714 / Recovery —

Observations:
none visible
warts on tail

Weights
Initial 106
Intermediate 570
Final 790
T.I. E-Miles
Ref. MR: 787

Killed 4-4-67 SE
Disposition KILLED Method CO2 Survival: d h m P.M. Time — Change —

General Condition Ad abon

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.51	1	3	Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.	3.60			Thyr./P.T.			
Hy./B.V.	1.91		1	Epd./Flm.				Adren.	0.078		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026		
Lungs	2.62			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.90			Es./Stom.	2.79			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.		2	
Pancreas			2	Ce./Co./Re.				Ey/Ea/No/Mo			

1) L. pole tumor.

2) Several wart-like nodules on tail. One sore was ulcerated.

4-4-67
CH
Pathologist Em Zuicker
Date 4-4-67

Cause of Death:

HISTOPATHOLOGY

1. focal fibrosis ++
2. focal tubular hyperplasia ++
3. focal glomerulonephrosis +++; fibrosis ++; tubular hyperplasia ++

RH
4/6/67

Pathologist RH
Date 5-16-67

SB-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003618

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69354
MR No. 787

Animal Rat Strain CFE-CD Sex ♂ Age 496 Days Diet GPLC+1% CO

Test 2 year feeding Phase Test Dose 500 PPM .052% Pb Days { Test 461 / Recovery

6/1/66

Observations: Rats lead to one side, others anesthetized, comatose with movements, chewing continuous weight loss

Weights
Initial 115
Intermediate 722
Final 440 7/9/66
T.I. E.N. Miller
Ref. NLP-787

FOUND DEAD

Killed —
Died 7:dead 7/26/66 Method —
Survivals d. h. m.
P.M. Time overnight+
Change 7. adv.
General Condition 7hr - cadaver (blue)

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissues Saved: Yes ___ No ✓
Histology Follows: Yes ___ No ✓

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht.(B.V)		W.N.L.		Epd./Fim.		W.N.L.		Adren.		W.N.L.	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sol./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Co./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - stiff

No evidence of Otitis Media. (No tissue saved)

NO TISSUE SAVED ✓

7-26-66
C.H.
Pathologist Wilma C. Powers
Date 7-26-66

Cause of Death:

HISTOPATHOLOGY

BH
7-28-66

Pathologist —
Date —

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003619

NECROPSY RECORD

Material Pb Acetate, Gp V Excipient —

H. 41574
No. 69579
MR No. 787

Animal Rat Strain CR.CD Sex M Age 681 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Test Dose .05% Pb 500 PPM Days Test 641 / Recovery

Observations:

Continuous wt loss from 9/27/66

FOUND DEAD

Weights
Initial 113
Intermediate 745
Final 500 1-17
T.I. C.M. Miller
Ref. MR 787

Killed
FD Died 1-27-67 Method Survival: d h m P.M. Time overnight Change mod

General Condition: Thin, pale, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.		1		Kidney		3 ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.		4 ✓		Thyr./P.T.		5 ✓	
Ht./S.V.		2 ✓		Epd./Fim.		✓		Adren.		✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs	6.37	6 ✓		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Large amount of clear fluid

2) Aorta stiff – nodules (fibrous) along dorsal aspect

3) Pale, granular

4) Liver atrophy – 5) Both pronounced

(6) Tissue saved – 6) Voluminous, dark red & edematous.

1-27-67
Pathologist William C. Krauss
Date 1-27-67

Cause of Death:

HISTOPATHOLOGY

WCK
1/30/67

Pathologist
Date

CR-8520 WHITE—PATHOLOGY, PEB BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003620

NECROPSY RECORD

Material Pb Acetate, Gp II .05% Pb Excipient _____

H. 4154
No. 69581
MR No. 787

Animal Rat Strain CR.CD Sex M Age 748 Diet 6PLC+1% CO

Test 2yr feeding Phase last Dose .05% Pb 500 PPM Days Test 714 Recovery _____

Observations:

Continued wgt loss since 1-3-67

Weights
Initial 128
Intermediate 705
Final 745
T.I. E. N. Miller
Ref. MR. 787

KILLED SE

Killed 4-4-67 Survival: P.M. Time _____ General Condition Pale.
Died _____ Method CHCl3 d ____ h ____ m ____ Change _____

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ____ No ____
Tissue Saved: Yes ✓ No ____
Histology Follows: Yes ____ No ____

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.80	3	6	Thym./N.F.			
Br./Sp.C.	2.28		5	T./Ov.	3.70		3	Thyr./E.P.			7
Hi./B.V.	3.60		1	Epd./Flm.				Adren.	0.110	34	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.034	5	
Lungs	2.62	1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.70		2	Es./Stom.	3.54			Bo./B.M.			
Spleen	1.77	2		Du./Je./Il.				Sk./App.			
Pancreas			4	Ce./Co./Re.				Ey/Ea/No/Mo			

1) Few red foci - scattered all lobes 0.5-1 mm dia.

2) Large.

3) Very large, pale brown cystic. Hydronephrosis bilateral.

4) Large, pale tan.

5) Hypertrophic.

4-4-67
CH.

Pathologist Jim Zwickus
Date 4-4-67

Cause of Death:

HISTOPATHOLOGY

1. focal fibrosis ++
2. focal fatty change +
3. focal atrophy +; ectasia ++
4. ectasia ++

PPP

(5.) neural necrosis; yellow neuronal pigmentation 4/6/67
Yellow pigment also in spinal cord.

6. Kidney - ~~glomerulonephritis~~ tubular hyperplasia ++ (adenoma?)
glomerulonephritis ++; tubular dilatation ++; fibrosis of Kapsule with fibrinoid necrosis; fibrinoid necrosis of smaller arteries
arteries + arterioles

7. hyperplasia ++.

GB

Pathologist _____
Date 5 17 67

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003621

NECROPSY RECORD

Material Lead Acetate Excipient

H. 454
No. 69588
MR No. 787

Animal Rat Strain CBR-CD Sex ♂ Age 447 days Diet H&L C+12 CD

Test 2yr. dosing Phase Test Dose 500 PPM ; .05% Pb Days Test 413 Recovery

Observations: Continuous weight loss, extreme pallor, poor fitting muscle tones 3/15/66 mass ½" dia. at perineal area had not. 6/7/66 moribund

Weights
Initial 431
Intermediate 390
Final 382
T.I. E. Miller
Ref. KLR-787

Killed 6-7-66 SE
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above, except mr. mass; 5mm scaly area just right of mid-line in perineal area

Histology Recommended: Yes No animal very thin
Tissue Saved: Yes ✓ No gasp - hill respiration
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	8.40	(3)		Thym./N.F.	—	(8)	
Br./Sp.C.	2.40			(T.)Ov.	0.83	(4)		Thyr./P.T.			
(Ht.)/L.V.	1.88	(1)		Epd./Fim.				Adren.	0.116	(9)	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.017	(10)	
Lungs	2.07			Pr./Ut.				Sal./Lac.			
L. N.				(Bl)/Ur.		(5)		N./M./F.			
(Liver)/G.B.	17.88	(2)		Es./(Stom.)	2.69	(6)		Bo./B.M.			
Spleen	0.51			Du./Je./Il.		(7)		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) aorta beginning to stiffen

(2) pale

(3) both kidneys pale tan, granular + cystic on both external + internal surfaces; minor cortical areas (1 per side) darkish red-brown, forming a ring around medullary region

(4) both testicles atrophied

6-7-66
Pathologist DM Zwicker
Date 6-8-66

Cause of Death:

HISTOPATHOLOGY

(5) bladder wall considerably thickened and white in color

(6) stomach empty except for small amt of mucoid material
many foci 2-3 mm circular areas of necrosis plus two 4 mm & 5 mm ulcerations in glandular mucosa

(7) cecum shrunken, contents dark red-brown pasty-like material; no formed feces in large intestine

(8) thymus atrophied

(9) (10) pale

Kid: glomerulonephritis ++, cystic
hyperplasia and exfoliation +++
erosion of glandular stomach

6/9/66

Pathologist SCP
Date 10 14 69

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003622

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CBR-CD Sex ♂ Age 405 days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Up To .05% Pb Days Test 371 Recovery

H. 4154
No. 69590'
MR No. 787

Observations:

Weights
Initial 115
Intermediate 610
Final 720
T.I. E. Rhodes
Ref. 2yr Pb Acetate Study

Killed 4-26-66 SP
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.92	①		Thym./N.F.	—		
Br./Sp.C.	2.20			T./Ov.	3.89			Thyr./P.T.			
Ht./B.V.	+8.1.10 2nd			Epd./Flm.				Adren.	.077		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.012		
Lungs	1.70			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.24			Es./Stom.	2.25			Bo./B.M.			
Spleen	1.31 2nd			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① bilateral hydronephrosis

(ca'pid pituitary - 5-section MR)

Cause of Death:

Pathologist MR Date 4-26-66 4-26-66

HISTOPATHOLOGY

SH 4/27/66

Pathologist

Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003623

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CBR-CD Sex ♂ Age 377 days Diet GPLC + 1% CO

Test 2yr feeding Study Phase Test Dose .05% Pb Days Test 343 Recovery —

H. 415-4
No. 695-93
MR No. 787

Weights
Initial 111
Intermediate 712
Final 420

T.I. C. Miles
Ref. Lead Acetate Stud

Observations: Continued weight loss

KILLED SE

Killed 3-29-66 Survival: P.M. Time —
Died — Method CHCl3 d — h — m — Change —

General Condition Thin, pale, partly listless.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	9.35	3		Thym./N.F.	—		
Br./Sp.C.	2.09	1		T./Ov.	2.26			Thyr./P.T.			
Ht./(S.V.)	2.03	2		Epd./Fim.				Adren.	0.076		
Tr./Lo./Br.				(S.V.)/F.T.		4		Pit./Pin.	0.013		
Lungs	1.85			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.41			Es./(Stom)	8.54	5		Bo./B.M.			
Spleen	1.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Area of brown discoloration - 5 mm dia - left rear cerebral hemisphere - dorsal surface.

2) Entire system stiffened - especially - thoracic aorta + heart junctures - Blood - thin + pale.

3) Lungs - internal + external surfaces granular; pale.

4) Mass - in area of right coagulating gland. 6 mm dia. (absent - on cut section) ✓

5) Contents - some blood - like material - clotted -

3-29-66 OH

Cause of Death: (Photographs taken) (1)

Pathologist GM Zwicker
Date 3-07-66

HISTOPATHOLOGY

(All organs were pale)

SH
3-30-66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003624

NECROPSY RECORD

Material Pb Acetate Hy T .05% Pb Excipient ———

Animal Rat Strain CR-CD Sex ♂ Age 577 Days Diet Gaines 17% CO

Test 2yr feeding Phase test Dose .05% Pb 500 ppm Days

Observations: None

H. 4154
No. 69600
MR No. 787

Test 545
Recovery ———

Weights
Initial 119
Intermediate 758
Final 848
T.I. 8 Mths
Ref. MR-787

Killed 10-17-66 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time ———

General Condition mod.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.21			Thym./N.F.	—		
Sp.C.	2.00			T./Pv.	2.91			Thyr./P.T.			
Ht./B.V.	2.15	①		Epd./Flm.				Adren.	.080		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.015		
Lungs	2.54			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	32.05			Es./Stom.	3.5			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Aguita fixm, fole

Pathologist William C. Krauss
Cause of Death MR 10-17-66 Date 10-17-66

HISTOPATHOLOGY

SPP
10/19/66

Pathologist ———
Date ———

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003625

NECROPSY RECORD

Material Pb Acetate GpT .05% Pb Excipient —

H. 41547
No. 69617
MR No. 787

Animal Rat Strain CR-CD Sex M Age 748 Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose .05% Pb 500 PPM Days Test 714 Recovery

Observations:
Continued exp't begun since 1-17-67

Weights
Initial 108
Intermediate 625
Final 552

T.I. E. A. Miller
Ref. MR 787

Killed 4-4-67 Dead KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition thin, yellow ruffled fur.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes ✓ No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	10.37	(3)	1	Thym./N.F.			
Br./Sp.C.	2.31		7	T./Ov.	3.30		5	Thyr./P.J.		(4)	
Ht./(B.V)	2.08	(5)		Epd./Fim.				Adren.	0.120		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.030		
Lungs	2.10			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			6
Liver/G.B.	19.68	(1)	4	Es./Stom.	3.32			Bo./B.M.			
Spleen	1.28	(2)	3	Du./Je./Il.				Sk./App.			
Pancreas			2	Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple yellowish, 0.5mm to 1.0mm diam, flat foci on surface of kidney, particularly cystic + left kidney

(2) one 0.5cm diam, yellowish, raised, nodular lesion on surface of spleen extending into fibrous tissue

(3) both kidneys pale tan (yellowish), granular + cystic; large + shaggy.

Cause of Death:

4-4-67 MAC
Pathologist Wm Mucker
Date 4-4-67

HISTOPATHOLOGY

(1) pituitary slightly enlarged

(2) aortas slightly rigid

Histo: 1. cortical adenoma (small) kidney; 2. ++ f adenoma small

1. arteritis +

3. focal RS cell hyperplasia +++ MM

4. focal fatty change with cyst formation + 4/6/67

5. focal atrophy + and arteritis +

6. muscle & nerve degeneration with filiros +

9. Red intranuclear inclusion ?

Pathologist EP
Date 5-18-67

FR-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003626

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154 ✓
No. 67633
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age B.D 3/17/65 Diet GPLC + 1% CO

Test 2 yr. Feeding Study Phase Test Dose H # 4154 0.05% Days Test 198 Recovery

Observations: none

Gp V

Weights
Initial 111
Intermediate
Final 783
T.I. Pkg. Milk
Ref. MR-787

Killed 11-4 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.70			Thym./N.F.	0.62		
Br./Sp.C.	—			T./Ov.	4.00			Thy./P.T.			
Ht./B.V.	1.87			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.012		
Lungs	2.15			Pr./Ut.		(1)		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.72			Es./Stom.				Bo./B.M.			
Spleen	1.11			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Left prostate reduced in size.

Cause of Death:

Pathologist Jim Zuckerman
MR 11-4-65 Date 11/4/65

HISTOPATHOLOGY

gpp
11-4-65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003627

NECROPSY RECORD

Material Lead Acetate Excipient ~~Excipient~~ Spr

H. 4154 V
No. 69626
MR No. 787

Animal Rat Strain CBR-CD Sex F B.D. Age 3/17/65 Diet GPLC + 1% Ca

Test Zif feeding Study Phase Test Dose H#4154 0.05% Bv. Days

Test 198
Recovery

Observations: none

Weights
Initial 108
Intermediate
Final 242
T.I. Chas. Hutton
Ref. MR-787

Killed 11-4 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.00			(Thym.)/N.F.	0.80		
(Br.)/Sp.C.	1.71			(T.)/Dy.	3.53			Thyr./P.T.			
(Ht.)/B.V.	1.72			Epd./Fim.				Adren.	.074		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.016		
Lungs	2.12			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	26.75			Es./Stom.				Bo./B.M.			
Spleen	1.03			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist J M Zuckerman
Date 11/4/65

HISTOPATHOLOGY

RJJ
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003628

NECROPSY RECORD

Material Pb Acetate Lot II .15% Pb Excipient ———

Animal Rat Strain HLR-CD Sex ♂ Age 603 Days Diet 6PLC + 10% CC

Test 2 yr. feeding Phase Test Dose .05% Pb 500 PPM Days

Observations: 6/21/66 perineal area wet stained dark brown
weight loss from 6/7/66

H. 41574
No. 69631
MR No. 787

Test 569
Recovery ———

Weights
Initial 120
Intermediate 780
Final 11/8 472
T.I. E. Miles
Ref. HLR-787

FOUND DEAD
Killed
Died 11-10-66 Method

Survival: d h m

P.M. Time
Change

General Condition Gen. flat colour

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		1.		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.		adv.		Epd./Fim.		adv.		Adren.		adv.	
Tr./La./Br.		PM		S.V./F.T.		PM		Pit./Pin.		PM	
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		chge		Es./Stom.		chge		Bo./B.M.		chge	
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Large, yellow granular kidneys

All tissues advanced PM Change

Pathologist William C. Kraus
Date 11-10-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003629

NECROPSY RECORD

Material Barbital Hgt .05% Bb Excipient —

H. 41521
No. 69647
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 576 Days Diet GPLC+10% CO

Test 2yr feeding Phase test Dose — Days

Test 542
Recovery —

Observations: 6/01 left hind leg swollen and inflammed
Continuous wgt loss from 8/30/06

Weights
Initial 119
Intermediate 672
Final 600 10/11
T.I. E. Miles
Ref. MR-787

Killed FOUND DEAD Survival: P.M. Time —
Died F.D. 10-14-06 Method — d h m Change much slight

General Condition autolysis just beginning to set in; dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected all tissues saved

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			4.	Thym./N.F.			
Br./Sp.C.				(T.)/Ov.		(2)		Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs	9.73	(1)	2.	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				(Si)/App.		(4)	3.
Pancreas				(Ce)/Co./Re.		(3)	1	Ey/Ea/No/Mo			

(1) right anterior + median lobes firm, discolored red-brown with some abscesses in median; left lobe, anterior portion firm, discolored red-brown with some abscesses; right middle and anterior portion of right lower lobe had large areas of abscess (yellow pasty-like exudate); abscessed portions of right lobes adherent to wall of thorax.

(2) both were soft and discolored purplish

10-14-06 MR
Pathologist Lyn Zurich
Date 10-14-06

Cause of Death:

HISTOPATHOLOGY

(3) contents of cecum were quite firm and dry

(4) very firm movable subcutaneous mass, 2.5 cm x 2 cm, just posterior to left pinna

Histo:

1. foci of glandular necrosis — GP
2. bronchiopneumonia +++; bronchiectasis +++ — 10/17/06
3. mammary fibroma with tubular hyperplasia
4. glomerulonephritis +++; foci of glomerulitis +++

Pathologist GP
Date 5 22 07

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003630

NECROPSY RECORD

Material Pb Acetate 4% IV .05 mg/kg Excipient —

H. 4454
No. 69-[illegible]653
MR No. 787

Animal Rat Strain ACI-CD Sex ♂ Age 579 Days Diet GPLC+1% CO

Test 2yr feeding Phase Test Dose .05% Pb 500 ppm Days Test 545 Recovery

Observations: none

Weights
Initial 121
Intermediate 250
Final 1122
T.I. E Kelly
Ref. MR 787

Killed 10-17-66 SD
Pet KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.45		4	(Thym./H.F.)	—		
(Br)/Sp.C.	2.43			(T./Ov.)	3.95			Thyr./P.T.			
(Hr)/B.V.	2.21		1	Epd./Flm.				Adren.	.064		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0.017		
Lungs	330	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver) G.B.	26.32		3	Es./(Stom.)	3.49			Bo./B.M.			
Spleen	1.60			Du./Je./Il.				Sk./App.			
Pancreas			2	Ce./Co./Re.				(Ey) Ea/No/Mo			3

(1) Hemorrhages throughout (internal cardial puncture), right middle lobe, consolidated, heavy.

10-17-66
C.H.
Pathologist William C. Krantz
Date 10-17-66

Cause of Death:

HISTOPATHOLOGY

1. focal muscle degeneration with fibrous tissue replacement +++, esp. in pericardium
2. fatty change +
3. prosoplasia ++
4. chronic glomerulonephritis ++; Tubular dilation ++, hyperplasia ++, Inc ++ nuclear inclusions, basophiloid cells ++
5. hematopoietic cells +

SH 10/19/66

Pathologist SH
Date 5-9-67

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003631

NECROPSY RECORD

Material Pb Acetate Gp V Excipient —

Animal Rat Strain CD-CO Sex Male Age 686 days Diet GPLC + 1% CO

Test 2yr-feeding Phase Test Dose .05% Pb 5 ppm Days

H. 4454
No. 69659
MR No. 787

Test 653
Recovery

Observations:

Continuous wgt loss since 9/27/66
1/31 pallor, exhausted
2/1 gasping —
FOUND DEAD

Weights
Initial 113
Intermediate 230
Final 430 1-31
T.I. E.K. Mills
Ref. MLR-787

Killed — Survival: P.M. Time 1 1/4 hrs ?
Died F.D. 2-1-67 Method — d h m Change moderate

General Bunched, rigid cadaver; perineal Condition region stained; greenish-black

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor./Abd.)		(1)		Kidney		(5)	2	(Thym./N.F.)		(8)	
Br./Sp.C.				(T./Ov.)		(6)	1	Thyr.(P.T.)		(9)	
(Ht./B.V.)		(2)		Epd./Fim.				Adren.		(10)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		(3)		Pr./Ut.				Sal./Lac.			
L. N.		(8)		Bl./Ur.				N./M./F.			
Liver/G.B.		(4)		Es./Stom.				(Bo./B.M.)		(A)	(3)
Spleen				Du./Je./Il.		(7)		Sk./App.			
Pancreas			4	(Ce./Co./Re.)				Ey/Ea/No/Mo			

(1) Thorax filled with red-brown turgid fluid; same present in abdominal cavity also
(2) Heart firm; aorta + vessels in abdomen cavity enlarged slightly
(3) some red-brown discoloration at hilar nodes
(4) liver pale, nodular with rounded margins
(5) both kidneys granular + enlarged

2-1-67 MK
Pathologist Jon Zuckerman
Date 2-1-67

Cause of Death:

HISTOPATHOLOGY

(1) both moderately atrophied
(7) Jejunum contained grumous material; no area of intussusception (3 cm long) in ileum jejunum
(8) atrophied with incidental lymphadenosis
(9) Thymus slightly enlarged
(10) both enlarged epithelioma
(11) Pancreas very little
H-2-67 (1) arteriosclerosis + atrophy +
(2) Chronic glomerulonephritis ++: fibrinoid necrosis and fibrosis of glomerules and small arteries.
(3) hyperplasia
(4) arteriosclerosis in kidney glomerules

Pathologist RGS
Date 5.18.67

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003632

NECROPSY RECORD

Material Lead Acetate Lot V Excipient —

H. 4854
No. C96666
MR No. 787

Animal Rat Strain CBR-CD Sex ♂ Age 551 days Diet GPLC+1% Ca

Test 2yr. feeding Study Phase test Dose .05% Pb ~~ppm~~ Days

Test 517
Recovery

Observations:
8/16/66 Solid moveable mass posterior to rt. foreleg 1½" diameter 9/13/66 mass grown to 2"
9/15/66 mass opened and bleeding
KILLED SE

Weights
Initial 126
Intermediate 742
Final 298
T.I. E. Kline
Ref. NLR 787

Killed ~~Lac~~ 9/19/66
Died — Method — Survival: d — h — m — P.M. Time — Change —

General Condition Cachectic

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes X No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.61			Thym./N.F.	—		
Br./Sp.C.	2.41			T./Ov.	3.79			Thyr./P.T.			
Ht./B.V.	2.34			Epd./Fim.				Adren.	0.023		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	1.87			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	32.55	1		Es./Stom.	2.77			Bo./B.M.			
Spleen	2.15	2		Du./Je./Il.				Sk./App.	78.38	3	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale, lobular markings prominent. Brown nodule, ventral surface, right lobe, 1.2 Cm. dia

2) Large & dark.

3) Large, partly necrotic mass - pectoral & right foreleg. Firm, nodular, grey-dark red. 7X7X3.5 Cm.

9-19-66
Pathologist G. Zurcher
Date 9-1966

Cause of Death:

HISTOPATHOLOGY

9/20/66

Pathologist —
Date —

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003633

NECROPSY RECORD

Material Pb Acetate Gpt. .05% Excipient ———

H. 4534
No. 69869
MR No. 787

Animal Rat Strain CFE-CD Sex ♂ Age 589 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .05% Pb 500 PPM Days { Test 555 / Recovery

Observations: continuous weight loss from 8/30/66
pallor, marbling 10/27/66

Weights
Initial 120
Intermediate 692
Final 438
T.I. 6 Mths
Rel. 787

Killed 10-27-66 SE
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Thin, pale, dehydrated, chromo, right upper incisor broken

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissues Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.30	3		Thym./N.F.	—		
Br./Sp.C.	2.20	1		T./Ov.	1.58			Thyr./P.T.			
Ht./B.V.	1.20			Epd./Fim.				Adren.	0.082		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.381	4	
Lungs	1.56			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.71	2		Es./Stom.	2.56			Bo./B.M.			
Spleen	0.58	•		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Brain compressed upward, re pituitary mass.

2) Pale, soft.

3) Pale, sl. granular.

4) Tongue mass - 1.2 x 0.7 x 0.7 Cm.

10-27-66
G.H.
Pathologist L. M. Zwicker 10-28-66
Date 10-27-66

Cause of Death:

HISTOPATHOLOGY

SH
10/28/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003634

NECROPSY RECORD

Material: Lead Acetate Exp I Excipient: —

H. 4454
No. 69673
MR No. 787

Animal: Rat Strain: CR-CD Sex: ♂ Age: 523 days Diet: GR-C+1% Ca

Test: 2 gen - feeding test Phase: Test Dose: .05% Pb 500 ppm Days: Test 488, Recovery —

Observations: none observed F. dead 8/22/66.

Weights: Initial 111; Intermediate 602; Final 798 8/16/66

T.I. E Miller

Ref. MR-780

FOUND DEAD

Killed —

FD Died 8-22-66 Method — Survival: —d —h —m P.M. Time overnight Change adv.

General Condition: Obese cadaver. Both cannibalized around head.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.		P.M. Change		Epd./Fim.		P.M. Change		Adren.		P.M. Change	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				M./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./B.M.			
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

No gross abnormalities detected due to P.M. changes.

(✓) Tissue saved.

8-22-66 C.H. William E. Krause
Pathologist
Date 8-22-66

Cause of Death:

HISTOPATHOLOGY

S.H. 8/23/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003635

NECROPSY RECORD

Material Pb Acetate Gp I .05% Pb Excipient —

Animal Rat Strain RHR-CD Sex M Age 728 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .05% Pb 500 PPM Days

H. 4154
No. 69695
MR No. 787

Test 694
Recovery

Observations: Continuous wgt loss since 1-17-67
3/14 Left hind foot swollen and inflamed

Weights
Initial 121
Intermediate 735
Final 460 3/14
T.I. C.X. Mahler
Ref. MR-787

FOUND DEAD

Killed
Died F dead 3/14 Method

Survival: d h m

P.M. Time Overnight Change mod

General Condition Pale, flaccid cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./P.T.				Pit./Pin.			
Lungs		1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		3		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Eo/No/Mo			

1) Pale red, hyperinflated, white foci all lobes 0.5-1.5 mm.

2) Part of right lobe present in thorax, (Diaphragmatic hernia) - swollen.

3) Pale brown

3-16-67
Pathologist E M Zurichen
Date 3-16-67

Cause of Death

HISTOPATHOLOGY

9M
3/20/67

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003636

NECROPSY RECORD

Material GP V Lead Acetate Excipient

H. 4154
No. 69646
MR No. 777

Animal rats Strain CRL-CD Sex ♂ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose: 0.5% (500 ppm) Pb GP V Days

Test 92
Recovery

Observations:

Weights
Initial 95
Intermediate
Final 448

T.I. J. Carver
Ref. MR-777

Killed 7-21-65 SD
Died KILLED Method CH Cl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes X No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.07			Thym./N.F.	.48		
Br./Sp.C.	1.92			T./Ov.	3.23			Thyr./P.T.			
Ht./S.V.	1.20			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.012		
Lungs	1.29			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.58			Es./Stom.	1.81			Ba./B.M.			
Spleen	0.73			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist William C. Rowe MAS 7-21-65
Date 7/21/65

Cause of Death:

HISTOPATHOLOGY

SLL 7-22-65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003637

NECROPSY RECORD

Material Lead Acetate 1% Excipient —

Animal Rat Strain CR:CD Sex ♂ Age 510 (475) Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .06% Pb 500PPM Days Test 500 (475) Recovery —

H. 4154
No. 69699
MR No. 787

Observations: Continuous weight loss
F. dead 8/9/66

Weights
Initial 103
Intermediate 272
Final 560 (8/2/66)
T.I. E. Miller
Ref. M&P. 787

FOUND DEAD

Killed —
Died 8-9-66 Method —

Survival: d — h — m —

P.M. Time overnight
Change adv.

General Condition Rigid cadaver, thin, pale, dehydrated.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor)/Abd.		3		Kidney		4 ✓		Thym./N.F.			
Br./Sp.C.			RML Atelec	T./Ov.				(Thyr./P.T.)		5 ✓	
Ht./(S.V.)		1		Epd./Fim.			Abn Change	Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			RML Atelec
Lungs		2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Ante stiff.
2) Emphysematous.
3) Moderate amount of clear fluid. (Pleural effusion)
4) Granular
5) Enlarged & pale

Cause of Death: (v) Tissues saved.

8-9-66 G.H.
Pathologist William C. Rowe
Date 8-9-66

HISTOPATHOLOGY

~~Hepatic - light all sections (4)~~
parathyroid hyperplasia ++
nephrosis +++

Pathologist GO
Date 9-30-69

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003638

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 41544
No. 69700
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 405 days Diet GPLC + 1% CO

Test 2yr. feeding Phase test Dose Gp V .05% Pb Days Test 371 Recovery

Observations:

Weights
Initial 108
Intermediate 618
Final 690
T.I. E. Miller
Ref. Pb acetate 2yr Study

Killed 4-26-66 SD
DKILLED Method CHCl3 Survival: d h m Change P.M. Time General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.19			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.11			(T.)/Ov.	3.72			Thyr./P.T.			
(Ht.)/B.V.	1.72			Epd./Fim.				Adren.	.046		
Tr./La./Sr.				S.V./F.T.				(Pit.)/Pin.	.017		
Lungs	2.07			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	19.72			Es.(Stom.)	2.79			Bo./B.M.			
Spleen	0.68			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D.

4-26-66
CTH
Pathologist Jan Zwicker
MR 4-26-66 Date 4-26-66

Cause of Death:

HISTOPATHOLOGY

SD
4/27/66

Pathologist
Date

EB-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003639

NECROPSY RECORD

Material Pb Oxide, Gp I .05% Pb Excipient ———

H. 41574
No. 69704
MR No. 787

Animal Rat Strain Carworth Sex M Age 748 Diet BPLC+1% CO

Test 2yr feeding Phase Test Dose .05% Pb 500 PPM Days {Test 714 / Recovery ———

Observations: Continuous wgt loss since 9/13/66 prelow

Weights
Initial 123
Intermediate 850
Final 802

T.I. E. X. Miller
Ref. MLR-787

Killed 4-4-67 SE
DKILLED Method CHCl3 Survival d h m P.M. Time ——— Change ———

General Condition Pale.

GROSS PATHOLOGY

Unless indicated no abnormality detected.

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	11.46	1	1	Thym./N.F.			
Br./Sp.C.	2.22			T./Ov.	3.64		3	Thyr./P.T.			
Ht./B.V.	2.55			Epd./Fim.				Adren.	0.088		2
Tr./Ia./Br.				S.V./F.T.				Pit./Pin.	0.029		
Lungs	2.30			Pr./Ut.				Sal./Lac		2	
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.72			Es./Stom.	3.82			Bo./B.M.			
Spleen	1.18			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Large, pale brown + granular.

2) Prosoplasia

4-4-67
OHZ
Pathologist Gm Zuicker
Date 4-8-67

Cause of Death:

HISTOPATHOLOGY

1. Hyperplasia of tubules +++; hyperplasia of glomerular capsule; chronic glomerulonephritis +++; tubular dilatation ++; fibrosis +++; fibrinoid necrosis and fibrosis of glomerulus; 9/11
2. Focal hyperplasia at cortico medullary junction +++ 4/6/67
3 arteritis +

Pathologist [illegible]
Date 5.18.67

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003640

NECROPSY RECORD

Material Lead Acetate Gp V Excipient

H. 4154
No. 69707
MR No. 787

Animal rat Strain CFE-CD Sex ♂ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .05% (500 ppm) Pb Days GP II

Test 92
Recovery

Observations:

Weights
Initial 114
Intermediate
Final 452

T.I. Jean Carver
Ref. MR-787

Killed 7-21-65 SD
Died KILLED Method CH Cl4

Survival: d h m

P.M. Time
Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes X No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.05			Thym./N.F.	0.68		
Br./Sp.C.	2.12			T./Ov.	3.30			Thyr./P.T.			
Ht./B.V.	1.21			Epd./Fim.				Adren.	0.045		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.010		
Lungs	1.61			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.34			Es./Stom.	1.63			Bo./B.M.			
Spleen	0.67			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

NO EYE OR SKIN AT TRIMMING - LBR 8/4/65

7-21-65
G.V.L.
Pathologist William C. Krauss
MR 12/1/65 Date 7/21/65

Cause of Death:

HISTOPATHOLOGY

9 FS 12-2-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003641

NECROPSY RECORD

Material GP V Lead Acetate Excipient

H. 4154
No. 69709
MR No. 777

Animal rat Strain CR-CD Sex ♂ Age 126 days Diet CPLC + 1% CO

Test 2-yr. feeding Phase Test Dose .05% (500ppm) Pb GP I Days

Test 92
Recovery

Observations:

Weights
Initial 95
Intermediate
Final 400
T.I. Joan Carew
Ref. MR-777

Killed 7-21-65 SD
Died KILLED Method CHCl₃ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.02			(Thym./N.F.)	0.68		
(Br./Sp.C.)	2.09			(T./Ov.)	3.60			Thyr./P.T.			
(Ht./B.V.)	1.31			Epd./Fim.				Adren.	0045		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0012		
Lungs	1.84	(i)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	13.99			Es./(Stom.)	1.44			Bo./B.M.			
Spleen	0.67			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(i) Few red foci scattered throughout .5 mm to 1.0 mm dia
Right middle lobe underdeveloped

7-21-65
G.V.L.
Pathologist William C. Yuen
MAS
Date 7-21-65

Cause of Death:

HISTOPATHOLOGY

9 pl
7-22-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003642

NECROPSY RECORD

Material Lead Acetate Lip V Excipient —

H. 41574
No. 64721
MR No. 787

Animal Rat Strain CBL-U Sex ♂ Age 503 days Diet GPLC + 1% CO

Test 2yr. feeding Phase test Dose .05% Pb 500PPM Days Test 468 Recovery

Observations: Continuous weight loss
8/2 Scant - responsive, ptosis, chromo
pallor, emaciated —

Weights
Initial 325
Intermediate 240
Final 271
T.I. E. Wells
Ref. MR-787

~~KILLED~~ ~~FOUND DEAD~~

Killed SE Survival: P.M. Time 5-Hours - General Condition Thin, dehydrated (severe) moribund.
Died ~~day of Eut~~ 8/2/66 Method d h m Change None

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissues Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.60	2		Thym./N.F.	—		
Br./Sp.C.	3.16			T./Ov.	3.65			Thyr./P.T.			
Ht./B.V.	1.28	1		Epd./Fim.				Adren.	0.084	5	
Tr./La./Br.				(S.V)/F.T.		3		Pit./Pin.	0.014		
Lungs	1.91			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.49			Es./Stom.	2.29	4		Bo./B.M.			
Spleen	0.58			Du./Je./Il.				Sk. (Appl.)		6	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pel - apparent scarred.
2) Pale.
3) Small.
4) Empty.
5) Ill. Heavy & dark.

8-2-66 CSH Pathologist Dm Zuricker Date 8-3-66

Cause of Death: 6) Abscess, right hind leg.

HISTOPATHOLOGY

PH 8-3-66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003643

NECROPSY RECORD

Material Pb acetate Lot E Excipient —

H. 4154
No. 69722
MR No. 787

Animal Rat Strain CD Sex ♂ Age 598 Days Diet GPLC + 1% CO

Test 24 yr feeding Phase Test Dose .05% Pb 500 ppm Days Test 564 Recovery

Observations: weight loss from 7/5/66

10/17 hard moveable mass 1½" diameter on the necrotic surface

Weights
Initial 123
Intermediate 698
Final 11/05 522
T.I. E. Miles
Ref. MR-787

FOUND DEAD Killed

Died F.D. 11-5-66 Method — Survival: d h m P.M. Time ? Change

General Condition rigid autolysis

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(4)	✓ 4	Thym./N.F.			
Br./Sp.C.				(T.)Ov.		(5)	✓	Thyr.(P.T.)		(7)	✓ 3
Ht.(B.V.)		(1)	✓	Epd./Tim.			✓	Adren.		(8)	✓
Tr./La./Br.				S.V./F.T.				(Pit./Pin.			✓
Lungs		(2)	✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)G.B.		(3)	✓ 1	Es./Stom.				Bo./B.M.			
Spleen			✓	Du./Je./Il.		(6)		(Sk.)App.		(9)	5
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) mod stiff aorta

(2) lungs hyperinflated + emphysematous; red/brown red reddish-pink to white mottling on surface

(3) multiple dark red nodules (arteritis?) in arteria patina of liver lobe

(4) both kidneys pale tan, granular

(5) both testes small, soft

11-7-66 MR
Pathologist William C. Rowe
Date 11-7-66

Cause of Death:

HISTOPATHOLOGY

(1) multiple dark red nodules all along G.I tract in mesentery (arteritis?)

(7) parathyroids enlarged

(8) adrenals enlarged + pale

(9) ulcerated, necrotic area 1.5 cm dia on left side (involves dermis)

Hosp
1. arteritis +++
2. arteritis ++
3. hyperplasia ++
4. glomerulonephritis +++ ; fibrosis ++ ; hyperbasophilia ++
5. atrophy necrosis + fibrosis ++

9/P
11/8/66

Pathologist S.P.
Date 5 15 67

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003644

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 41574
No. 69732
MR No. 787

Animal Rat Strain CBR-10 Sex ♂ Age 405 days Diet GPLC+1% Ca

Test 2yr feeding Phase test Dose Hpt, .05% Pb Days Test 371 Recovery

Observations:

Weights
Initial 108
Intermediate 660
Final 738
T.I. Sac. Moloo
Ref. Pb Acetate 2yr Study

Killed 4-26-66 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Nad

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.50			(Thym.)/N.F.	—		
Br./Sp.C.	2.21			(T.)/Ov.	3.33			Thyr./P.T.			
Ht./B.V.	1.85			Epd./Fim.				Adren.	.070		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.013		
Lungs	1.97			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.21			Es./(Stom.)	2.76			Bo./B.M.			
Spleen	1.31			Du./Je./Il.				Sk./App.			
Pancreas				Co./Co./Re.				Ey./(Ea.)/Ne/Mo		1	

1 Cortical Nodule, Left.

4-26-66
Pathologist Gm Zwicker
MR Date 4-26-66

Cause of Death:

HISTOPATHOLOGY

PFF
4/27/68

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003645

NECROPSY RECORD

Material Lead Acetate Excipient

Animal Rat Strain CRL-CD Sex ♂ Age 8.0 3/17/65 Diet GPLC + 1% Ca

Test 24 yr. feeding Study Phase Test Dose H # 4154 0.05% Pb Days

Observations: none

H. 4154
No. 69734
MR No. 787

Test 728
Recovery

Weights
Initial 111
Intermediate
Final 571
T.I.
Ref. H&R-787

Killed 11-4-65 SD
Died KILLED Method CHCl3 d h m

Survival:

P.M. Time
Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.98			(Thym.)/N.F.	.54		
(Br.)/Sp.C.	2.01			(T.)/Ov.	3.37			Thyr./P.T.			
(Ht.)/B.V.	1.60			Epd./Flm.				Adren.	0.055		
Tr./Le./Br.				S.V./P.T.				(Pit.)/Pin.	0.013		
Lungs	1.68			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	12.25			Es./Stom.				Bo./B.M.			
Spleen	.82			Du./Je./Il.				Sk./App.			
Pr ...				Ce./Co./Re.				Ey/Ea/No/Mo			

W.A.L.

(Pit. missing from 11-18-65 MHL)

11-4-65
C.W.L.

Cause of Death:

Pathologist Lm Zuckes
MC 11-4-65 Date 11/4/65

HISTOPATHOLOGY

SH
11-4-65

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003646

NECROPSY RECORD

Material Pb acetate Gp II Excipient ———

Animal Rat Strain CR:CD Sex M Age 680 days Diet GR C+12% CO

Test Oral 2yr. feeding Phase Test Dose .05% 1.2 500 AM Days

Observations: weight loss 1-17
possibility atic medica

II
H. 4104
No. 69736
MR No. 787

Test 640
Recovery

Weights
Initial 106
Intermediate 632
Final 709 617
T.I. E. Mills
Ref. HR 787

FOUND DEAD

Killed ——— Survival ——— P.M. Time 3 General emaciated - subcutaneous edema; ascites; Smells of urine; perineal fur
Died FD 1-17-67 Method ——— d ——— h ——— m ——— Change Moderate Condition wet brown.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes K No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		5		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		2		Es./Stom.				Bo./B.M.			
Spleen		3		Du./Je./Il.				Sk./App.		6	
Pancreas		4		Ce./Co./Re.				Ey/Ea/No/Mo			

1- Large, heavy; all lobes firm, discolored dark brown, diaphragm adhered to lungs.
2- many 2-4 mm circular white foci over dorsal and ventral surfaces
3- small
4- Small, brown.
5- discolored grey; firm, coarse to cut

Cause of Death:

Pathologist GM Swicker
Date 1-27-67

HISTOPATHOLOGY

6- Firm lobulated, grey growth in rt & lft axillary region (probably mammary tissue)

Liver: nebulous all sarcoma

Kidney: hyaline droplet change ++

other organs not found

Pathologist GH
Date 9-30-69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003647

NECROPSY RECORD

Material Pb Acetate Gp V .05% Pb Excipient —

Animal Rat Strain CR-CD Sex M Age 148 Diet GPLC + 1% CO

Test Oral 2yr feeding Phase test Dose .05% Pb 500 PPM Days

H. 41134
No. 69743
MR No. 787
Test 414
Recovery

Observations:
Continuous wt loss since 1-17-67

Weights
Initial 123
Intermediate 702
Final 618
T.I. C. A. Kelly
Ref. MR-787

Killed 4-4-67 SE
Died KILLED Method CHCl3

Survival: d h m

P.M. Time
Change

General Condition Thin, dehydrated, pale
Cold abscess over R. flank

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.81		1	Thym./N.F.	—		
Br./Sp.C.	2.70			T./Ov.	5.50			Thyr./P.T.			
Ht./B.V.	1.99		4	Epd./Flm.				Adren.	0.104	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023		2
Lungs	2.95	1		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.70			Es./Stom.	3.76			Bo./B.M.			
Spleen	0.98			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Pt./Ea/No/Mo			3

1) Hyperplasia, fine nodular - all lobes. Nodular tube observed.

2) Large, pale livers

4-4-67
GM
Pathologist GM Zuckerman
Date 4-4-67

Cause of Death:

HISTOPATHOLOGY

1. Chronic glomerulonephritis ++; fibrosis +, tubular hyperplasia ++; hyperplasia of Bowman's epith +.
2. Focal hyperplasia +
3. prosplasia of E.L.G.
4. Focal fibrosis +

9/11
4/6/67

Pathologist
Date 5 18 67

EK-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003648

NECROPSY RECORD

Material Pb Acetate Lot V .05% Pb Excipient —

H. 4454
No. 69750
MR No. 787

Animal Rat Strain ACI-10 Sex M Age 579 Days Diet Steer GPLC+1%Ca

Test 2yr feeding Phase test Dose .05% Pb 500 PPM Days

Test 545
Recovery

Observations: None

Weights
Initial 108
Intermediate 730
Final 1071
T.I. E. Miller
Ref. NLR-789

Killed 10-17-66 SD
KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.71	(2)		(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.20			(T.)/Ov.	4.20			Thyr./P.T.			
(Ht.)/B.V.	2.40			Epd./Fim.				Adren.	0.082	(1)	
Tr./La./Bc.				S.V./F.T.				(Pit.)/Pin.	0.023		
Lungs	3.73			Pr./Ut.				Sal./Lac.	—		
L. N.				Bl./Ur.				N./M./F.			
(Liver) G.B.	31.65			Es. (Stom.)	3.91			Bo./B.M.			
Spleen	1.25			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) brown pigmentation on both adrenals

(2) right kidney; pitted

Left thyroid enlarged - ? ectopic tissue. CM 10-24-66

Cause of Death:

Pathologist William C. Rueckhart MR 10-27-66
Date 10-17-66

HISTOPATHOLOGY

Unusual right adrenal tumor(?).
Glomerulonephritis +++; tubular hyperplasia +++, fibrosis ++,
lymphoid cell foci ++; glomerular lesions +++

SJJ
10/19/66

Pathologist SJJ
Date 4/18/67

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003649

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 454
No. 697763
MR No. 787

Animal Rat Strain CR·CD Sex ♂ Age 405 day Diet GPLC+1% CO

Test 2yr feeding Phase test Dose Hp IV .05% Pb Days

Test 371
Recovery

Observations:

Weights
Initial 100
Intermediate 628
Final 742
T.I. E. Miller
Ref. Pb Acetate-Lip Study

Killed 4-26-66 SD
KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.71			(Thym)/N.F.	—		
(Br.)Sp.C.	1.95			(T.)Ov.	4.20			Thyr./P.T.			
(HI)/B.V.	1.63			Epd./Fim.				Adren.	.024		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.015		
Lungs	1.63			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	22.71	(1)		Es./(Stom.)	3.00			Ba./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one small 2mm x 2mm gray-white focus on surface of liver lobe

Cause of Death:

Pathologist Dm Zuckerman
MR 4-26-66
Date 4-26-66

HISTOPATHOLOGY

SAP 4/29/66

Pathologist ___
Date ___

TX-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003650

NECROPSY RECORD

Material: Lead Acetate Hp TA Excipient: —

Animal: — Strain: — Sex: — Age: 329 days Diet: GPLC + 17% CO

Test: 2 year feeding Study Phase: Test Dose: Control for H 4154 Days: 0

Observations: Continuous weight loss

H: 4154
No. 70100'
MR No. 787

Test 294
Recovery —

Weights
Initial ~~134~~ 105
Intermediate 603
Final 355
T.I. Eliz. N. Miles
Ref. 2 yr. feeding Study Ch. data

KILLED 5F

Killed 2-9-66 Survival: — P.M. Time: —
Died — Method: CHCl3 d — h — m — Change: —

General Condition: Chromodacryorrhea - eyes. Pale; dehydrated. Perianal area smeared.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.07			Thym./N.F.	—	4	
Br./Sp.C.	1.89	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.00			Epd./Fim.				Adren.	0.056		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.330	5	
Lungs	1.20			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./P.			
Liver/G.B.	9.69	2		Es./Stom.	1.69	3		Bo./B.M.			
Spleen	0.39	1		Du./Je./Il.				Sk./App.			
Pancreas	—			Ce./Co./Re.				Ey/Ea/No/Mo			

1) Displaced at base - ? pituitary mass.

2) Small — As expected for an animal ↓ continuous weight loss

3) Almost empty

4) Atrophy

5) Large mass - vascular 1.2 x 0.8 x 0.8 Cm

2-9-66
Pathologist: Nilton C. Brown
Date: 2-9-66

Cause of Death: —

HISTOPATHOLOGY

E.F.I.
2-9-66

Pathologist: —
Date: —

WHITE—PATHOLOGY BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003651

NECROPSY RECORD

Material Cerebral Ln H 4154 Gp IA Excipient —

Animal Rat Strain CAR CD Sex F Age 176 Diet GPLC + 1% CD

Test 2yr feeding Phase Test Dose Cerebral Gp IA Days

H. 4154
No. 69768
MR No. 787

Test 742
Recovery —

Observations:

11/8/66 Intermittent wgt loss
5/2/66 Solid moveable mass position C at forlg 2½"
area 1" mass left parietal

Weights
Initial 98
Intermediate 291
Final 451

T.I. E Hile
Ref. NAR-787

Killed 5/2/67 SD Survival — P.M. Time —
Died KILLED Method CO2 d — h — m — Change —

General Condition Cachexia Dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.95	2		Thym./N.F.			
Br./Sp.C.	2.05	①		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.45			Epd./Pm.				Adren. Rt 0.052 Lt 0.062		②	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.610	③	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.75			Es./Stom.	2.53			Bo./B.M.			
Spleen	1.05			Du./Je./Il.				Sk./App.	T. 11.33 C 19.20	④	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Yellow from orlw. Base depressed dorsally — re-pituitary mass

② Surface pitted

③ Pitted dark red from left greatly enlarged

④ Large dark red vascular mass 1.5 × 1.0 × 1.0 cm

⑤ Mass measuring 1.5 cm in greatest dimension 5.5 × 2.5 cm; fixed unit carcass material 5-2-67 OH

⑥ " " " Gl. 2 cm O " " " " "

Cause of Death: Left inguinal group 3.5 cm O

Pathologist L M Zurcher

Date 5/2/67

HISTOPATHOLOGY

5/12/67

Pathologist —

Date —

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003652

NECROPSY RECORD

Material: Control Gp H-4154 Pb Acetate Gp IA Excipient

Animal: Rat Strain: CD-CD Sex: ♀ Age: 728 Days Diet: GPLC + 1% CO

Test: 2yr feeding Phase: test Dose: Control Days: Test 694 Recovery

H. 41524
No. 69771
MR No. 787

Weights: Initial 118 Intermediate 441 Final 555

T.I. C. Miller
Ref. MR-787

Observations: Continuous wt. loss since 1-31-67
possibility of chromodacryorrhea
2/28 stained perineal area
3/16 pallor, emaciated - moribund

KILLED

Killed 3-16-67 SE Survival: P.M. Time: General Condition: as above
Died Method: CHCl3 d h m Change:

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes X No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.20			Thym./N.F.	—		
Br./Sp.C.	2.29			T./Ov.	—			Thyr./P.T.			
Ht./S.V.	1.25			Epd./Flm.				Adren.	0.085		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.223	?	
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.90	1		Es./Stom.	1.93			Bo./B.M.			
Spleen	0.54			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale tissue

2) Dark red vascular mass - 1 x 0.5 x 0.5 Cm.

3-16-67
GH

Pathologist: Gm Zuckis
Date: 3/20/67

Cause of Death:

HISTOPATHOLOGY

GH
3/20/67

Pathologist:
Date:

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003653

NECROPSY RECORD

Material: Control Lot H #4154 CMC Excipient: —

Animal: Rat Strain: CR CD Sex: F Age: 715 Days Diet: 6 PLC + 1% CO

Test: 2 yr feeding Phase: Test Dose: Control Days: Test 681 / Recovery —

IH
H. 4454
No. 69776
MR No. 787

Observations:

1/17 2 masses in perineal area 2"/mass
1/20 open mass - possibility of otitis media
impaired mobility

KILLED SE

Weights
Initial 98
Intermediate 392
Final 698
T.I. E. Mule
Ref. MR-787

Killed 3-2-67
Died: Method: Cells d h m Survival: P.M. Time: Change:

General Condition: Cachexia

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.88			Thym./N.F.	—		
Br./Sp.C.	2.09			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.69			Epd./Flm.				Adren.	0.185	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.070	5	
Lungs	2.08	1		Pr./Ut.				Sal./Lac.			
L.N.				Pl./Ur.				N./M./F.			
Liver/G.B.	25.23	2		Es./Stom.	2.18			Bo./B.M.			
Spleen	3.30	3		Du./Je./Il.				Sk./App. 1)	74.00	6	
Pancreas				Ce./Co./Re.				Ey(Ea)No/Mo?)	218.00	7	

1) Pale, slt. heavy:

2) Pale-brown, heavy

3) Large - left + dark

4) Mottled red-brown, heavy

5) Vascular wall - 5x3x3 mm

3-2-67
DW
Pathologist GM Zuercher
Date 3-2-67

Cause of Death: 6) Mass - firm, nodular, pale grey - anterior to right kidney. 60 days (mammary type)

HISTOPATHOLOGY

2) Mass - dense fibrous, nodular, necrotic surface, felted & convoluted, perineal area (right) 5x5x4 cm. (mammary type)

7) Otitis Media - Left - chronic

3/3/67

Pathologist
Date

DUP040003654

NECROPSY RECORD

Group IA
Material Pb Acetate Control Excipient ———

Animal Rat Strain CD Sex ♀ Age 681 days Diet Gaines Dog Co

Test 2yr. feeding Phase Test Dose Control Days

Observations 12/20 multiple masses - ventral surface
not eating or drinking
palpable
Continuous wt loss from 10/11/66

KILLED SE

IA
H. 4154
No. 69778
MR No. 787

Test 647
Recovery

Weights
Initial 106
Intermediate 522
Final 392
T.I. E. Niles
Rel. MR-787

Killed 1-27-67 Survival P.M. Time
Died Method Chlf d h m Change

General Condition Thin, pale & alopecic

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.20	3		Thym./N.F.	—		
Br./Sp.C.	2.18	1		T./Ov.	—			Thyr./P.T.			
Ht./S.V.	1.14			Epd./Fim.				Adren.	0.089	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.394	5	
Lungs	1.98	2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.57			Es./Stom.	3.02			Bo./B.M.			
Spleen	0.39			Du./Je./Il.				(Sk)/App.	1-18.35	6	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	1-29.15		
									C-20.43		

1) Ventral surface - ulcerated tumor - ? pituitary mass - Pale, soft.
2) Scattered red foci
3) Pale
4) Left - large + dark
5) Lung - fine, fluid-like mass 1.2 x 0.9 x 0.6 Cm.
6) C - Mammary Type - Ulcerated - 4.5 x 3 x 2 Cm - Post. - Rt. Inguinal

1-27-67
C.M.
Pathologist William C. Yeaman
Date 1-27-67

Cause of Death

HISTOPATHOLOGY

b - " " - " " 5 x 3 x 2 Cm - Ant. Rt. Inguinal
c - " " - " " 5 x 3.5 x 2 Cm - Post - Left Inguinal

8M
1/31/67

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003655

NECROPSY RECORD

Material Control for H-41154 Excipient

H. 41154
No. 69780
MR No. 787

Animal Rat Strain CR-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase Test Dose Control gr. I a. Days Test 196 Recovery

Observations: none

Weights
Initial 106
Intermediate
Final 329
T.I. Elg. Shelter
Ref. MR-787

Killed 11-2-65 SD
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected.

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.39			(Thym./N.F.)	.40		
(Br./Sp.C.)	1.89			T./Ov.				Thyr./P.T.			
(Ht./S.V.)	1.00			Epd./Fim.				Adren.	.065		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	.027		
Lungs	1.17			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	10.65			Es./Stom.				Bo./B.M.			
Spleen	.61			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Cause of Death:

Pathologist Gm Zucker
11-2-65 Date 11/12/65

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003656

NECROPSY RECORD

90 DAY SACRIFICE

Material Control Excipient

H. 4154
No. 69786
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC+1% CD

Test 2-yr. feeding Phase Test Dose Control GPIA Days Test 92 Recovery

Observations:

Weights
Initial 110
Intermediate
Final 225
T.I. J. Carr
Ref. MR 787

SD

Killed 7-21-65 Survival: P.M. Time
Died KILLED Method CHCl3 d h m Change
General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.09			(Thym./N.F.	0.60		
Lu./Sp.C.	1.77			T./Ov.				Thyr./P.T.			
Ht./S.V.	0.95			Epd./Pin.				Adren.	0.061		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.014		
Lungs	1.66			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.49			Es./Stom.	1.61			Bo./B.M.			
Spleen	0.49			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist William C. Krauss
MK 7-21-65 Date 7-21-65

HISTOPATHOLOGY

EBS 7-22-65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003657

NECROPSY RECORD

Material: Lead Acetate Excipient: —

Animal: Rat Strain: CD-1 Sex: ♀ Age: 406 days Diet: WLTA

Test: 2 yr. Feeding Phase: Test Dose: Control Days: Ia

H. 41524
No. 69790
MR No. 787

Test 373
Recovery

Observations:

Weights
Initial 103
Intermediate 351
Final 422
T.I. [illegible]
Ref. Pb Acetate 2 yr Study

KILLED 5D

Killed
Died 4/25/66 Method: CO2 Survival: d h m P.M. Time Change

General Condition: NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.45			Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.Vs.	1.1			Epd./Flm.				Adren.	.053		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	.017		
L. Lungs	1.14			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./P.			
Liver/G.B.	11.90			Es./Stom.	1.50			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-28-66
OH
Pathologist: G M Zuicker
Date: 4/28/66

Cause of Death

HISTOPATHOLOGY

9H
4/29/66

Pathologist
Date

DUP040003658

NECROPSY RECORD

Material Control for H-4154 Gp IA Excipient ———

H. 4154
No. 69796
MR No. 787

Animal Rat Strain CAR:CD Sex F Age 762 Diet GPLC + 10% CO

Test 2yr feeding Phase test Dose Control Gp IA Days Test 728 Recovery

Observations:

Continued wgt loss since 2/14
3/14 2 masses palpated in each of rt. flanks 1"
4/18 Moribund, pallor

Weights
Initial 113
Intermediate 382
Final 255
T.I. E.T. Mellie
Ref. MR 787

KILLED SD

Killed 4-18-67 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition decahair + very thin, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.54			Thym./N.F.	—		
Br./Sp.C.	1.87	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	0.92			Epd./Flm.				Adren.	0.035		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.344	2	
Lungs	1.36			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.56			Es./Stom.	2.01	4		Bo./B.M.			
Spleen	0.30			Du./Je./IL				Sk./App. 0-13.04		3	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo 0-13.72			

1) L. yellow - Opposed at base - vertically - 2 pt. base

2) Dark red vascular mass - 1 Cm dia

3) Mass - (mammary type) filled with caseous like material - right lower pectoral grp - 3 Cm dia -

b " " " " " " " " " - left " " " " - 2.5 Cm dia

4) Small erosion of squamous mucosa, non-junctional zone

4-18-67 GH.
Pathologist E.M. Zuricker
Date 4-18-67

Cause of Death

HISTOPATHOLOGY

SD 4/19/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003659

NECROPSY RECORD

Material: Lead Acetate Excipient: —

H. 4164
No. 69805
MR No. 787

Animal: Rat Strain: CR-CD Sex: ♀ Age: 407 days Diet: 6PLC+1% CO

Test: 2yr feeding Phase: test Dose: Control Days: Test 373, Recovery —

Observations:

KILLED SD

Weights: Initial 100, Intermediate 285, Final 290

T.I. E Kirby

Ref. Pb Acetate 2yr Study

Killed 4/28/66 Died — Method CHCl3 Survival: d — h — m — P.M. Time — Change —

General Condition: Thin NAD

GROSS PATHOLOGY

Unless indicated no . . . abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.31			Thym./N.F.			
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	.92			Epd./Fim.				Adren.	.067		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.018		
Lungs	.70			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./T.			
Liver/G.B.	8.41			Es./Stom.	1.45			Bo./B.M.			
Spleen	.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

4-28-66 O.H. Pathologist H.M. Zwicker Date 4/28/66

HISTOPATHOLOGY

S.H. 4/29/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003660

NECROPSY RECORD

Material Control for H 4154 Gp I A Excipient

Animal Rat Strain CAR CD Sex F Age 775 Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose Control Days

H. 4154
No. 69818
MR No. 787

Test 741
Recovery

Observations:

11/8/67 Solid moveable mass posterior to left forleg 1"
4/18 mass grown to 3"

Weights
Initial 90
Intermediate 335
Final 618

T.I. E Miller
Ref. MP 787

Killed 5-1-67 SD
Died KILLED Method CO2 d h m

Survival P.M. Time Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.35			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.	②			Thyr./P.T.			
Ht./B.V.	1.70			Epd./Flm.				Adren.	0.100	④	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.044	④	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.80			Es./Stom.	3.90			Bo./B.M.			
Spleen	1.70			Du./Je./Il.				Sk./App.	156.0	⑤ ⑥	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

0.132mx.76mx.46m lobular, circumscribed firm to fluid mass/form tissue white pink white fluid, tan to white

② Left ovary — (small) cystic

③ Sub-cervical white firm joint shackling

④ Slightly enlarged, soft with 1mm D, dark, med focus on dorsal surface at side.

⑤ Right thigh area, firm, fixed, pale - light tan in color

5-1-67 MMC
Pathologist J.M. Zwicker
Date 5-1-67

Cause of Death

HISTOPATHOLOGY

5-12-67
5

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003661

NECROPSY RECORD

Material Cortical fr 4154 GpIA Excipient —

Animal Rat Strain Clb.OD Sex F Age 776 Diet GPLC+127 Co

Test Lip freezing Phase Test Dose Cortical GpIA Days

Observations:

12/10 Solid moveable mass 1" posterior to Rt Sulcg
2 solid masses perineal area 1½" each
3/14 both masses open to 3" each

H. 4154
No. 69846
MR No. 787
Test 742
Recovery

Weights
Initial 106
Intermediate 340
Final 620

T.I. Cellulin
Ref. JMR 787

Killed 5-24-67 SD
Died KILLED Method CHCl3 Survival: d h m Change

P.M. Time

General Condition rt lower incisor elongated, perforating roof of mouth.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50			Thym./N.F.			
Br./Sp.C.	3.20			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.75			Epd./Fim.				Adren.	0.135	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024	(3)	
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	30.50	(1)		Es./Stom.	2.60			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.		(4)(5)(6)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

subcutaneous mass.
(A) posterior Rt leg. 98.5g 8 - 5 - 2.5 cm → lobulated, firm, reddish pink.
(B) rt side perineal region 49.4g 5.5 - 5 - 2.0 cm → subcutaneous, semifirm, white pendulous tissue, plus some brown, pastelike material
(C) left side perineal region 117.8g 7.5 - 8.0 - 2.5 cm → same gross subcutaneous tissue as D
(1) large and heavy liver
(2) large white spleen
(3) 1 mm dark focus (cyst) dorsal surface rt side

5-24-67
JMR

Pathologist E. M. Zeuchner

Cause of Death:

CSF Date 5-28-67

HISTOPATHOLOGY

6/1/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003662

NECROPSY RECORD

GPIA

Material Control Excipient

H. 4154
No. 69251
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 17% CO

Test 2-yr. feeding Phase Test Dose Control GPIA Days Test 92 Recovery

Observations:

Weights
Initial 103
Intermediate
Final 280
T.I. J. Carver
Ref. MR 787

Killed 7-21-65 SD
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.80			(Thym)/N.P.	0.50		
(Br./Sp.C.	1.70			T./Ov.				Thyr./P.T.			
(Ht./B.V.	0.90			Epd./Fim.				Adren.	0.056		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.	0.013		
Lungs	2.31	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	8.43			Es./(Stom.)	1.35			Ba./B.M.			
Spleen	0.31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Right upper, right middle + median atelectatic. Right lower 1/3 of lobe indurated and filled with greenish fluid

No BLADDER AT TRIMMING LBR 8/4/65

Pathologist William C. Krauss
7-21-65 Date 7/21/65

Cause of Death:

HISTOPATHOLOGY

9 ff
9.22.65

Pathologist
Date

ER-8429 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003663

NECROPSY RECORD

Material: Control Lot A-4154 — Po diet, Gp L A — Excipient:

Animal: Rat — Strain: CD-1 — Sex: F — Age: 674 Days — Diet: GPLC + 1% CO

Test: 2yr feeding — Phase: Test — Dose: Control — Days:

Observations: 8/9/66 - ARs came off tail

12/20 solid mass perineal area 2" diam

FOUND DEAD Continuous wgt loss since 12/20/66

Killed: — Survival: — P.M. Time: overnight? — General: rigid/cadaveric; autolysis fat present

Died: F.D. 1-23-67 — Method: — d — h — m — Change: advanced — Condition: some hair loss in perineal region

GIT H. 4154 No. 69854 MR No. 787

Test 643 Recovery

Weights: Initial 415 Intermediate 475 Final 420 1-17

T.I. E. Miller Rel. MR 787

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.	0.315	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.184	(5)	
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./P.			
Liver/G.B.				Es./Stom.		(3)		Bo./B.M.			
Spleen		(1)		Du./Je./Il.				Sk./App.		(6)	
Pancreas				Ce./Co./Re.				Ey/Ec/No/Mo			

(1) very small

(2) both moderately dark brown, granular internally + externally

(3) several centers - like mucus of varying consistency, some gluey, some adjacent to junction zone (1mm to 7mm in)

(4) left adrenal enlarged (0.239 gm) and multiple (adjacent lobules), coverage from tan to red-brown, firm; right adrenal (0.091 gm) lobulated - has cuticular 0.5 cm in diameter

Cause of Death: — Pathologist: William C. Krause — Date: 1-23-67 — Date 1-23-67

HISTOPATHOLOGY

(5) pituitary 1 cm x 0.8 cm x 0.65 cm high; anterior 1/2 somewhat dark red-brown, posterior 1/2 light red-brown, semi-firm;

(6) multiple nodules in perineal region along left lower quadrant, lobulated, white to gray-pink firm tumor, flow cream colored to dark, mainly brown, liquid to paste-like material.

SH
1/24/67

Pathologist: — Date:

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY/MICRO PINK—TOXICOLOGY/GROSS

DUP040003664

NECROPSY RECORD

Material: Lead Acetate Excipient:

Animal: Rat Strain: CBR-20 Sex: ♀ Age: 407 days Diet: GPLC + 1% CO with

Test: 24 feeding Phase: test Dose: Control Days: 373

Observations:

KILLED SJ

Killed / Died: 4/25/66 Method: CO2 Survival: d h m P.M. Time: Change:

General Condition: NAD

H. 41574
No. 69862
MR No. 787
Test 373
Recovery
Weights
Initial 103
Intermediate 385
Final 450
T.I. R. Hales
Ref. N.A. Sch. 4

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.F.			
Br./Sp.C.	2.11			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.15			Epd./Fim.				Adren.	.064		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.020		
Lungs	1.59			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.25	(1)		Es./Stom.	1.87			Bo./B.M.			
Spleen	.69			Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Small dark focus on left lateral lobe, dorsal surface

4-28-66 GW

Pathologist: L.D. Zbicker

Cause of Death:

Date: 4/28/66

HISTOPATHOLOGY

S-41

4/29/66

Pathologist:

Date:

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY—MICRO PINK—TOXICOLOGY GROSS

DUP040003665

NECROPSY RECORD

Material Pb Acetate Control Gp I A Excipient —

Animal Rat Strain CbR·CD Sex F Age 715 Days Diet 6PLC + 1% CO

Test 2yr. feeding Study Phase test Dose Control Days

IA
H. 4164
No. 69 867
MR No. 787

Test 681
Recovery

Observations:
Continuous wgt loss since 11-22-66
3/4 ration taken, emaciated

Weights
Initial 115
Intermediate 345
Final 321
T.I. Emaciated
Rel. MR 787

KILLED SE

Killed 3-2-67
Died — Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition Thin, pale, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.30	3		Thym./H.F.	—		
Br./Sp.C.	2.08			T./Ov.	—			Thyr./P.T.			
(Ht.)/(L.V.)	1.49	1		Epd./Fim.				Adren.	0.088		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.080	5	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.05	2		Es./Stom.	2.25			(Ba)/B.M.		6	
Spleen	0.67			(Du)/Je./Il.		4		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Myocardial scarring; aorta - stiff, blood thin + pale.
2) Pale brain.
3) Fatty, pale brown, granular.
4) Blue nodules along duodenum.
5) Dark fecal at esophagus, large.

3-2-67
Pathologist GM Zwickau
Date 3-2-67

Cause of Death: 6) Bone structure - soft.

HISTOPATHOLOGY

GM
3/3/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003666

NECROPSY RECORD

Material Control for H-4154 Excipient —

Animal RAT Strain CHRCD Sex ♀ Age 531 days Diet GLC 4 10% C.O.

Test 2 yr FEEDING Phase TEST Dose CONTROL Days

Observations:

FOUND DEAD

Killed — Survival: — P.M. Time Overnight

Died 6.D. 8.30.66 Method — d — h — m — Change Adv.

General Condition: Flaccid Cadaver

H. 4154
No. 69872
MR No. 787

Test 496 days
Recovery —

Weights
Initial 108
Intermediate 432 (8 mo)
Final —

TI E.N. HILES
Ref. MR 787

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T.(Ov.)				(Thyr.)/P.T.			
Ht./S.V.				Epd./Flm.				Adren.			
Tr./La./Br.				S.V./P.T.				(Pit.)/Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				(Bo.)/S.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red throughout

2) Mass - Hard - like - 0.5 Cm dia

(+) tissue saved

P-30-66 ASH

Pathologist Lawrence Zilker

Cause of Death —

Date 8-30-66

HISTOPATHOLOGY

8/30/66

Pathologist —

Date —

WHITE—PATHOLOGY YELLOW—TOXICOLOGY/MICRO PINK—TOXICOLOGY/GROSS

DUP040003667

NECROPSY RECORD

Material: Pb Acetate 1yr Control Excipient:

H. 4154
No. 67877
MR No. 787

Animal: Rat Strain: Sprague-Dawley Sex: ♀ Age: 582 Days Diet: GLC+19% CO

Test: 2 yr Feeding Phase: Test Dose: Control Days: Test 548, Recovery

Observations: None

Weights
Initial: 108
Intermediate: 305
Final: 490
T.I.: E Miller
Ref.: MLR-787

Killed: 10-20-66 Survival: P.M. Time:
Died: KILLED Method: CO2 d h m Change:

General Condition: Go initial for more Nelson

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.10			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.34			Epd./Flm.				Adren.	.088		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.035	2.	
Lungs	1.62			Pr./Ur.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.52			Es./Stom.	2.25			Bo./B.M.			
Spleen	.70			Du./Je./Il.				Sk./App.	9.22	1.	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 4×3×1.3 gelatinous mass from mass in right femoral area.
2. One [illegible] lesion adjacent to pea mass.

10-20-66 GSH

Pathologist: William C. Krauss
Date: 10-20-66

Cause of Death:

HISTOPATHOLOGY

GH
10/24/66

Pathologist:
Date:

WHITE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003668

NECROPSY RECORD

Material: Control Year H-4154 Gp IA Excipient:

H. 4154
No. 69881
MR No. 787

Animal: Rat Strain: CR·CD Sex: F Age: 376 Days Diet: GPLC + 1% CO

Test: 2 yr feeding Phase: test Dose: Control Gp IA Days

Test 743
Recovery

Observations:
Continued wt loss from 1-31-67
1/4 pkt soiled material mass adj ventral left forleg 1" @
" " " " " " Hind leg 2" @

Weights
Initial 108
Intermediate 375
Final 732
T.I. E Miller
Ref. MR-787

Killed: 5-3-67 5 D.
Died: KILLED Method: $CHCl_3$ Survival: d h m P.M. Time: Change:

General Condition: As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.25			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.185	(3)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020		
Lungs	1.61	Ⓒ		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./T.			
Liver/G.B.	25.80	Ⓐ		Es./Stom.	2.65			Bo./B.M.			
Spleen	1.35			Du./Je./Il.				Sk./App.	3.67+3.0	(1)	@26203
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) @ on 7x5cm x 2.5cm subcutaneous lobulated firm white to pink white tissue
@ 11cm x 8cm x 5cm subcutaneous lobulated firm white to tan to purple red tissue
(2) Several flat grayish irregularly shaped foci on surface of all lobes
(3) Enlarged, brown, whitish speckling
(4) Swollen with rounded margins

5-3-67
MRC
Pathologist: Jim Zurkowski
Cause of Death: Exsanguination Date: 5-8-67

HISTOPATHOLOGY

9 of 61
5 1

Pathologist:
Date:

ER-8620 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003669

NECROPSY RECORD

Material Pb Acetate Gp I A Control Excipient

Animal Rat Strain Chl:CD Sex ♀ Age 582 Days Diet 6% LC + 1% CO

H. 44544
No. 69889
MR No. 787

Test 2yr feeding Phase test Dose Days Test 548 Recovery

Observations: 2/1/66 solid moveable mass posterior to right foreleg ½" diameter 8/30/66 solid moveable mass 2" diameter posterior to left foreleg

Weights
Initial 100
Intermediate 376
Final 661

T.I. E. Miles
Ref. MR 787

Killed 10-20-66 SD
Died KILLED Method CHCl3 Survival d h m P.M. Time Change

General Condition ao Noted below

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.1			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./S.V.	1.41			Epd./Fim.				Adren.	.108		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	.021		
Lungs	1.18			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.31	3.		Es./Stom.	2.35			Bo./B.M.			
Spleen	.91			Du./Je./Il.				Sk./App.	Mass 1.	2.1 cm	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	Mass 2.	7.0 cm	

Mass 1. 7½ x 3½ x ½ cm soft hollow semi firm mass filled with creamy foamy liquid - right inguinal area

Mass 2. 8 x 6 x 3 semi firm lobulated mass - right axillary area.

3. Prominent lobular markings.

10-20-66
Pathologist William E. Prince
Date 10-20-66

Cause of Death

HISTOPATHOLOGY

89

1/25/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003670

NECROPSY RECORD

Material: Lead Acetate 40 IA — Excipient:

Animal: Rat — Strain: SR CD — Sex: F — Age: 603 Days — Diet: CRL 10, CO

Test: 2yr feeding — Phase: Int — Dose: Control — Days

Observations: weight loss since 8/30/66
pallor, ptosis 10/11/66

H. 41541
No. 69913
MR No. 787
Test 569
Recovery
Weights
Initial 105
Intermediate 412
Final 288
T.I. E. Miller
Ref. MP 787

Killed: 11-10-66 SE — Survival: — P.M. Time: — General Condition: Emaciated
Died: KILLED — Method: CHCl3 — d — h — m — Change:

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No
Tissue Saved: Yes ✓ No
Histology Follows: Yes — No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40		/	Thym./N.P.			
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht.(B.V.)	.99	2.		Epd./Fim.				Adren.	.102		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	a.367	1.	
Lungs	1.32			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	7.10			Bo./Stom.	1.80			Bo./B.M.			
Spleen	.42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1.6 mm x 2 mm x 5 mm focal brown mass overlying the brain.

3.8 gm +

Pathologist: William C. Kreamer
Date: 11-10-66

Cause of Death:

HISTOPATHOLOGY

94
11/11/66

Pathologist:
Date:

PINK—TOXICOLOGY, GROSS

DUP040003671

NECROPSY RECORD

Material Pb Acetate Control Excipient

Animal Rat Strain CD Sex ♀ Age 598 Day Diet Ab libit GLC+12CO

Test 24-feeding Phase Test Dose Control Days

Observations

1219 Blood appears to be coming from vagina
Some fur loss on flanks

Killed 12-9-66 Survival d h m P.M. Time

Died KILLED Method CHCl Change

General Condition active, animal sluggish + obese

(C) H. 4454 No. 69914 MR No. 787

Test 598 Recovery

Weights Initial 119 Intermediate 313 Final 598

T.I. E. Miller Ref. MR-787

GROSS PATHOLOGY

(Unless indicated no abnormality detected)

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.		(1)		Kidney	3.75	(3)		Thym./N.F.	—	(5)	
Br./Sp.C.	1.95	(1)		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.74			Epd./Fim.				Adren.	0.092	(6)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019	(1)	
Lungs	1.50			Pr./(Ut.)		(4)		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.48	(2)		Es./Stom.	2.30			Bo./B.M.			
Spleen	1.55			Du./Je./Il.				Sk./App./mass	2.95	(7)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Organs in gross in file

(2) liver pale brown, mottled, rounded margins

(3) pale tan, slightly cystic

(4) uterus very distended, filled with clear fluid and blood, mucosa with spicules of blood + brownish material (injection?)

(5) thymus

12-9-66 MAC

Pathologist E Zwicker

Date 12-9-66

Cause of Death

HISTOPATHOLOGY

(6) adrenal cortex - hyperplasia, slight pigmentation

(7) small mass 1.5 cm in diameter ventral to left pinna; subcutaneous, very firm, white, lobulated tissue

12/21/66

Pathologist

Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003672

NECROPSY RECORD

Material: Pb Acetate - Gp IA Central Excipient ———

Animal Rat Strain CR CD Sex F Age 700 Diet 6 PLC + 1% CO

Test 2yr feeding Phase test days Dose Conc 0 Days

Observations: 11-4 possibility of otis media
11-8 Solid moveable mass 3" posterior to right forelegs
1-17-67 mass grown to 5"

KILLED SE

Killed 2-15-67 Survival: P.M. Time ———
Died ——— Method CHL; d ——— h ——— m ——— Change ———

General Condition Alcohol

ID
H. 4154
No. 69918
MR No. 787

Test 666
Recovery ———

Weights
Initial 104
Intermediate 350
Final 852

T.I. Ex. Male
Ref. MLR-787

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.34			Thym./N.F.	—		
Br./Sp.C.	2.01			T./Ov.	—			Thyr./P.T.			
Ht./S.V.	1.72			Epd./Fim.				Adren.	0.130	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026	3	
Lungs	1.98	1		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.20			Es./Stom.	2.47			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.	497.55	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Bright red foci - scattered all lobes 0.5-2 mm dia.

2) Large - mottled, dark red brown.

3) M. large - Dark focus (red) anterior portion.

4) Large, firm, nodular, partly necrotic nodule - posterior & right foreleg. 14.5 x 11 x 6 Cm. (mammary-Type)

2-15-67
GM
Pathologist G M Zavadek
Date 2-15-67

Cause of Death

HISTOPATHOLOGY

GM
2/21/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003673

NECROPSY RECORD

Material: Bromate Lot 4 Control Excipient:

H. 4154
No. 69921
MR No. 787

Animal: Rat Strain: CFE-W Sex: F Age: 682 Days Diet: GPLC + 1% CO

Test: 2yr feeding Phase: Test Dose: Control Days: Test 548, Recovery

Observations: none

Weights: Initial 70, Intermediate 381, Final 702

T.I. E. Kuhn
Ref. MR 787

Killed 10-20-66 SH Survival: d h m P.M. Time:
Died Method CHCl3 Change:

General Condition: NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.80			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.35			Epd./Fm.				Adren.	.024		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	.018		
Lungs	1.49			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.68			Es./Stom.	2.10			Bo./B.M.			
Spleen	.82			Du./Je./Il.				St./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1 Bilateral mammary fibroadenomas

10-20-66
QSH
Pathologist: William C. Krauss
Date: 10-20-66

Cause of Death:

HISTOPATHOLOGY

WCK
10/24/66

Pathologist:
Date:

FM—Toxicology Gross

DUP040003674

NECROPSY RECORD

Material Control for H # 4154 Excipient

H. 415-4
No. 69930
MR No. 787

Animal Rat Strain CHR-CD Sex ♀ B.D. Age 3/12/65 Diet GPLC + 1% C.O.

Test 2 yr feeding Study Phase test Dose Control gp. Ia Days Test 196 Recovery

Observations: none

Weights
Initial 108
Intermediate
Final 471

T.I. Eliz. Miller
Ref. MR-787

Killed 11-2-65 SD
Died KILLED Method CHCl₃ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.37			Thym./N.F.	.80		
Bc./Sp.C.	1.80			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren.	.059		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.24			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.95			Es./Stom.				Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death

Pathologist Wm. Zucker
MR
Date 11-2-65

HISTOPATHOLOGY

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO. PINK—TOXICOLOGY GROSS

DUP040003675

NECROPSY RECORD

Material: Control Lot H-4154 Pb Acetate 40 I.A. Excipient: —

Animal: Rat Strain: CD Sex: F Age: 672 Days Diet: 6% C + 1% CO

Test: 2 yr. Feeding Phase: Test Dose: Control Days: Test 638 / Recovery

H. 4154
No. 69935
MR No: 787

Observations:

12-20-66 solid mass enlarged 2nd hind leg 1" diam
" " mass at pleural area 2½" "
1-17-67 multiple mass enlarged solid tissue to
KILLED SE 1st hind leg 3" opened and bleeding

Weights
Initial 79
Intermediate 402
Final 942

T.I. E. Miller
Ref. MR-787

Killed 1-18-67 Survivals P.M. Time
Died — Method CHCl₃ d h m Change

General Condition: manner as live plus two more in left side, clear animal.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.08			(Thym.)/N.F.	0.65	(2)	
(Sp.)/Sp.C.	1.85			(Adr.)	—	(5)		Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.097		
Tr./La./Br.	—			S.V./P.T.				(Pit.)/Pin.	0.039	(3)	
Lungs				Pr./Ut.				Sal./Lac.			
Lot				Bl./Ur.				N./M./F.			
(Liver)/G.B.	33.00	(1)		Es./(Stom.)	2.80			Bo./B.M.			
Spleen	1.50			Du./Je./Il.				(Sk.)/App.		(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) liver enlarged, rounded margins, pale with the prominent lobular markings, friable.

(2) faintly stippled

(3) T.T. slightly enlarged + spongy; 65 mid dark red focus on dorsal surface of right side.

(4) five masses in fatty tissue of perineal (in flanks + ventral surface perineal region); ranges 3cm X 2cm X 1.5cm to 1cm X 7cm X ¼ cm; consisted of solid tissue (white to grey to red-brown) MRP 1-18-67

Pathologist: D.M. Zuckerman

Cause of Death: —

Date: 1-18-67

HISTOPATHOLOGY

(1) to (4) fixed (—H, —Lito) and imbedded in thick fluid material.

(5) both ovaries were imbedded

(No lung section at hand CSH 2-22-67)

1/20/67

Pathologist

Date

WHITE—PATHOLOGY, H.L. BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003676

NECROPSY RECORD

Material: Control for H 4154 @ 1A Excipient:

H: 4154
No. 6949
MR No. 787

Animal: Rat Strain: CR·CD Sex: F Age: 775 Diet: 6 PLC+1% Co

Test: 2yr feeding Phase: test Dose: Control Gp 1A Days: Test 741, Recovery

Observations:
intermittent wet tail
3/4 solid movable mass inferior to left ear 1½" apart
posterior to rt hind leg 2" - posterior to rt pelvis
½" anterior to left hind leg ½

Weights: Initial 95, Intermediate 329, Final 540
T.I. E Miller
Ref. NLP. 787

Killed: 5/1/67 SD Survival: d h m P.M. Time: General Condition: Cachexic
Died Method: CH d2 Change:

KILLED

GROSS PATHOLOGY

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.60			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.65			Epd./Fim.				Adren.	0.078		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.029		
Lungs	1.80			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.05			Es./Stom.	2.35			Bo./B.M.			
Spleen	.90			Du./Je./Il.				Sk./App.		A B C D	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(A) mammary type mass 2.5 - 2.5 - 1.5 cm rt lower pectoral area (6.9g)
(B) diffuse mammary type mass rt inguinal area 5-4 - 2.5 cm (4.2g)
(C) left upper pectoral area - mammary type 5-4-2cm (31.5g)
(D) 1cm - 2.0 - 1.0 mammary type lesion at left inguinal area (5.6g)

5-1-67
CH
(M.D.) Pathologist: Dr Zweibel
Cause of Death: CIS. Date: 5/1/67

HISTOPATHOLOGY

5/4/67
SD

Pathologist
Date

EE-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY/MICRO PINK—TOXICOLOGY/GROSS

DUP040003677

NECROPSY RECORD

Material: P. Acetate Control I.A. Excipient

Animal: Rat Strain: HR-CD Sex: ♀ Age: 659 Days Diet: GPLC + 10% CO

Test: Lyp feeding Phase: 1st Dose: Control Days

Observations: 1/2 mucoid diarrhea stained perineal area found dead

H. C (74154)
No. 69965
M.R. No. 787
Test 624
Recovery
Weights
Initial 119
Intermediate 415
Final 745 1/4
T.I. 5 Mile
Ref. MR-787

FOUND DEAD
Killed Survivals: d h m P.M. Time overnight
Died F.D. 1-5-67 Method Change observed

General Condition extremely obese (much internal and subcutaneous fat); placid animal;

GROSS PATHOLOGY

Unless indicated no gross abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

clear fluid in eyes

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(3) ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.027	(5) ✓	
Lungs		(1) ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(2) ✓		Es./(Stom.)		(4) ✓		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Diffuse fatty involvement of liver and accumulation of lipids in sinusoids

② Same as ① but fatty involvement of kidneys, esp. proximal tubules

③ Fatty involvement of parenchyma

④ Mucoid material in lumen of upper small intestine (stomach and duodenum contain much fluid)

⑤ Pituitary 2 mm x 2 mm x 1 mm, light yellow, lobulated

1-5-67
Cause of Death: me
Pathologist: Jim Zwicker
Date: 1-5-67

HISTOPATHOLOGY

Pathologist
Date

WHITE—Pathology, H.L. BLUE—Toxicology, Micro PINK—Toxicology, Gross

DUP040003678

NECROPSY RECORD

Material: Control for Pb Acetate GP IA — Excipient:

Animal: Rat — Strain: CHR-CD — Sex: Male — Age: 69B Days — Diet: GPLC + 10% CO

Test: 2 yr feeding — Phase: Test — Dose: Control — Days

Observations: Normal

FOUND DEAD

Filed: — Survival: — P.M. Time: —

Died: F.D. delivered 2-14-67 — Method: — d — h — m — Change: —

General Condition: right & placed alone / panniculus stained / genitals & anus clear

GROSS PATHOLOGY — Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Some Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			✓	Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			✓
Tr./La./Br.				S.V./P.T.				(Pit.)/Pin.			✓
Lungs		(1)	✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.		(2)	✓	Es./Stom.				Bo./B.M.			
Spleen		(3)	✓	Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Dark (Pb) area / circular, hyper, clusters, 1 cm in b 1.5 cm dia; focal on surface all lobes

(2) Enlargement (mass) of liver, approx 6 cm x 3.5 cm, surrounding walking & stomach, portion of duodenum + other liver lobes / all lobes yellowish tan with irregular dark red-brown splotches on surface (some / splotches on interior slightly raised), mottled with rounded margins, friable.

(3) spleen enlarged / mottled with rounded margins

2-13-67

Pathologist: MK Lin Zucker

Cause of Death:

Date: 2-13-67

HISTOPATHOLOGY

9 pl
3/13/67

Pathologist:

Date:

Ex-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

IA
H. 4154
No. 69971
MR No. 787

Test 664
Recovery

Weights
Initial 76
Intermediate 328
Final 642 1-31

T.I. E. N. Hickey
Ref. MR 787

DUP040003679

NECROPSY RECORD

Material Control for H # 4154 Excipient

H. 41541
No. 69976
MR No. 787

Animal Rat Strain CR-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose Control gp Ia Days Test 196 Recovery

Observations: none

Weights
Initial 104
Intermediate
Final 331
T.I. Elz. Lilly
Ref. MR-787

Killed 11-2-65 SD
KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected.

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.29			Thym./N.F.	0.45		
Br./Sp.C.	2.18			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren.	.071		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	.017		
Lungs	1.69	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./P.			
Liver/G.B.	9.82			Es./Stom.				Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) right middle lobe consolidated (congested?)

11-2-65
G.S.D.
Pathologist Jim Zucker
MR 11-2-65 Date 11-2-65

Cause of Death

HISTOPATHOLOGY

gff
11-3-65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003680

NECROPSY RECORD

Material GP IA Control for H #4154 Excipient

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 1% CO

Test 2-yr feeding Phase Test Dose Control GP IA Days Test 92 Recovery

H. 4154
No. 69978
MR No. 767

Weights
Initial 98
Intermediate
Final 906

T.I. Joan Carver
Ref. MR-787

Observations

SD

Killed 7-21-65 Survival
Died KILLED Method $CHCl_3$ d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.98			(Thym)/N.F.	0.58		
(Br)/Sp.C.	1.90			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.88			Epd./Fim.				Adren.	0.057		
Tr./La./Br.				S.V./P.T.				(Pit./Pin.	0.014		
Lungs	1.09			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	9.21			(Es./Stom.)	1.31			Bo./B.M.			
Spleen	0.48			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-21-65
O.H.
Pathologist William C. Krauss
7-22-65 Date 7/21/65

Cause of Death

HISTOPATHOLOGY

EPP
7-22-65

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003681

NECROPSY RECORD

Material: Lead Acetate Excipient: —

H. 4154
No. 69979
MR No. 787

Animal: Rat Strain: CD-1 CD Sex: ♀ Age: 407 days Diet: GPLC + 1% CO

Test: 2yr feeding Phase: Test Dose: Control Days: Test 373, Recovery —

Observations:

Weights: Initial 110, Intermediate 353, Final 470

T.I. C. Miles

Ref. Pb Acetate 2yr Study

Killed: SD Died: 4/27/66 Method: CHCl3 Survival: d h m P.M. Time — Change —

General Condition: NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.26			Thym./N.F.			
Br./Sp.C.	4.85			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren. ①	.092	①	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.34			Es./Stom.	1.90			Bo./B.M.			
Spleen	0.54			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Adrenal - enlarged (both) discolored - red brown

One kidney only at trimming - 0.28 5-2466

Cause of Death:

Pathologist: Len Zwicker
Date: 4/28/66

HISTOPATHOLOGY

SH
4/29/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003682

NECROPSY RECORD

Material Pb Acetate Gp IA Excipient Control Lot # 4154

Animal Rat Strain ARS:CD Sex F Age 728 Days Diet GPLC + 1% CD

H. 4154
No. 69982
MR No. 787

Test 2 yr feeding Phase Test Dose Control Days

Test 694
Recovery

Observations 5/30/66 Lard resemble mass 1" diam. posterior to Right hind leg
12/20/66 grown to 2" resembles surface
2/17/67 mass grown to 5"
KILLED SC 3/10/67 Mass opened & bleeding

Weights
Initial 121
Intermediate 324
Final 862

T.I. E. Melin
Ref. LAB. 787

Killed 3-15-67 Survival P.M. Time
Died Method CO2 d h m Change

General Condition As above + spl. mass

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes ✓ No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40	2		Thym./N.F.	—		
Br./Sp.C.	2.01			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.38			Epd./Fim.				Adren.	0.100	3	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.018		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	34.50	1		Es./Stom.	1.81			Bo./B.M.			
Spleen	1.28			Du./Je./IL.				Sk./App.	G-36.25	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	L-448.30		

1) Large, pale brown.

2) Hydronephrosis, right.

3) Large, pale brown.

4) Mass - (a) involving lower right pectoral group. Some fusion - pale white & brown. 5X4X2.5 Cm.

(b) entire right inguinal group. Firm, red brown, nodular & partly necrotic. 14.5X9X6 Cm.

Cause of Death (Mammary Type)

3-15-67
Pathologist GM
Date 3-18-67

HISTOPATHOLOGY

GM Zuckerman

8/11
3/16/67

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003683

NECROPSY RECORD

Material Control Exp I a Lead Acetate Excipient

Animal Rat Strain CR-CD Sex ♀ Age 3.98 days Diet GPLC + 17% CO

Test 2yr. Feeding Study Phase Test Dose Control, 1.0% Pb Days Test 364 Recovery

Observations none

C
H. (4154)
No. 69983
MR No. 787

Weights
Initial 113
Intermediate 389
Final 480

T.I. E. Miles
Ref. Pb Acetate 2yr. Study

FOUND DEAD

Killed
Died 4-19-66 Method
Survival: d h m
P.M. Time ?
Change: 4h

General Condition Flaccid cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes X No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		3	
Lungs	3.40	/		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Voluminous, dark red stuck throughout (Hemorrhage?), wet, heavy.

2) Mass, vaicular 0.7 × 0.5 × 1.4 Cm.

4-19-66
C.H.
Pathologist William C. Krauss
Date 4-19-66

Cause of Death

HISTOPATHOLOGY

911
4-20-66

Pathologist
Date

WHITE—Pathology YELLOW—Toxicology Micro PINK—Toxicology Gross

DUP040003684

CHRONIC FEEDING

NECROPSY RECORD

Material: Pb Acetate High Control Excipient:

Animal: Rat Strain: Wi Ch Co Sex: F Age: 582 Days Diet: GPLC 10% CO

Test: 2yr feeding Phase: Test Dose: Control Days: Test 548, Recovery

Observations: none

H. 4154
No. 69985
MR No. 787

Weights: Initial 104, Intermediate 365, Final 500

T.I. D. Miller
Ref. MCR-787

Killed 10-20-66 SD Survival: d h m P.M. Time Change
Died KILLED Method CH Cl3

General Condition: NAD

GROSS PATHOLOGY (Unless indicated no abnormality detected)

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.75			Thym./N.F.			
Br./Sp.C.	2.18			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	.086		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	.023		
Lungs	1.48			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14 1	1,		Es./Stom.	1.80			Bo./B.M.			
Spleen	~~9 9~~ 0.72 YCBJ			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 2 mm. blot foci surrounded by a 4 mm. pale tan halo.

10-20-66
mmc William C. Yuan
Pathologist
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

SH
10/24/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003685

NECROPSY RECORD

Material: Pb Acetate + Cp IA + Coulrid Lot H-4154 — Excipient: —

H. 4154 / No. 69991 / MR No. 787

Animal: Rat — Strain: Old CD — Sex: F — Age: 176 — Diet: GPLA + 17% CO

Test: 2yr feeding — Phase: T & E — Dose: Coulrid GIH — Days: Test 242 / Recovery

Observations:

Weights: Initial 90 / Intermediate 334 / Final 608

T.I. E Mills / Ref. MP-787

Killed: 5-2-67 SD — Survival: d h m — P.M. Time — Change

Died: KILLED — Method: $CHCl_3$

General Condition: emaciated, mass right side of throat region

GROSS PATHOLOGY

(Unless indicated no abnormality detected)

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes V No
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.75			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.		(1)		Thyr./P.T.			
Ht./B.V.	1.35			Epd./Flm.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.90	(2)		Es./Stom.	2.00			Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one side of uterine horn has smaall fluid filled cyst 1cm - 5cm

(2) pale - prominent lobular markings

5-2-67 MRC

Cause of Death:

Pathologist: [signature] / C.S. Date: 5-2-67

HISTOPATHOLOGY

5-2-67

Pathologist

Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003686

NECROPSY RECORD

Material Control Lot H-4154 GPIA Excipient

H. 4154
No. 69993
MR No. 787

Animal Rat Strain CR.CD Sex F Age 778 Diet GPLC + 1% CO

Test Rip feeding Phase test Dose Control GPIA Days

Test 744
Recovery

Observations:
Continued wgt loss from 3/28 (47
5/4 mass proterior to left scapula 1½"

Weights
Initial 114
Intermediate 408
Final 762
T.I. Eighty
Ref. MR-87

Killed 5/4/67 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.00			Thym./N.F.	—		
Br./Sp.C.	2.19			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Flm.				Adren.	0.120		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.094		
Lungs	1.70			Pr./Ut.				Sal./Lnc.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.25			Es./Stom.	3.00			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App. M255	23.10	Rt	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Mass
(a) 4.5cm dia x 2cm high subcutaneous firm tannish to pinkish tissue.
(b) Right perineal region 1.5cm x .8cm firm subcutaneous which ran mass

5-4-67 MAR
Pathologist Lea Zuches
Date 5/4/67

Cause of Death

HISTOPATHOLOGY

5/11/67
K.R.

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003687

NECROPSY RECORD

Material Cortisol Ac. H-4154 Cp I A Excipient —

Animal Rat Strain Old CD Sex F Age 778 Diet GPLC + 1% CD

H. 4154
No. 6988
MR No. 787

Test 2yr feeding Phase test Dose Cortisol Cp I A Days Test 744 Recovery

Observations:

Continued wt loss from 3/28

4/5/67 mass (sept) removable right perineal area 1½"

Weights
Initial 110
Intermediate 358
Final 572
T.I. E. Hicks
Ref. MR-787

Killed 5-4-67 SD Survival: d h m P.M. Time
Died KILLED Method CHCl3 Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.25			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.15			Epd./Flm.				Adren.	0.070		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.328	①	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.10			Es./Stom.	1.80			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.	104.10	②	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Pale brown mass 0.9 cm dia.

② Mass, mammary type, lower right inguinal area 9×6×4 cms.

5-4-67
OH.
Pathologist Gm Zuricker
Date 5-14-67

Cause of Death

HISTOPATHOLOGY

GM 5/14/67

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003688

NECROPSY RECORD

Material: Coviral Lot H-4154 Pb Acetate Gp IA Excipient

H. 4154
No. 70050
MR No. 787

Animal: Rat Strain: HLR-CD Sex: F Age: 779 Diet: GPLC + 1% CO

Test: Rep feeding Phase: Test Dose: Coviral Days: Test 745 / Recovery

Observations:

4/18 mass ✓ posterior to R ear lobe 1" ⓐ
" anterior & at hairline 1" Ⓐ

KILLED SD

Weights: Initial 121 / Intermediate 260 / Final 762

T.I. E. Miller
Ref. HLR-787

Killed: 5/5/67 Survival: P.M. Time:
Died: Method: $CHCl_3$ d h m Change:

General Condition: as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.45			Thym./N.F.			
Br./Sp.C.	2.20			T.(Ov.)		Ⓑ Ⓓ		Thyr./P.T.			
Ht./S.V.	1.82			Epd./Flm.				Adren.	R: 0.092 L: 0.058	Ⓒ Ⓔ	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.044	Ⓕ	
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.40	Ⓢ		Es./Stom.	2.80			Bo./B.M.			
Spleen	0.88			Du./Je./Il.				Sk./App.	B: 8.80 T: 15.00	Ⓘ	
Pancreas				Ce./Co./Re.				Ey/Eo/No/Mo			

ⓐ 50m × 4cm × 3cm subcutaneous firm whitish tan to pinkish tissue

Ⓑ 4.5cm × 3.5cm × 2cm subcutaneous firm whitish tissue

Ⓒ Left - 1cm dia. fluid filled cyst clear yellowish fluid

Ⓓ Right enlarged

Ⓔ Partly vascular pituitary mass dark red to light red brown color, 7mm × 6mm × 3.5mm hemi-rounded (ruptured on removal)

Ⓕ Slightly scrolled, even margins, fair brain pigment blister marking friable 5-5-67 FMB

Ⓘ Slightly scrolled, even margins, fair brain pigment blister marking friable

Cause of Death: SCR

Pathologist: bmb Date: 5/9/67

HISTOPATHOLOGY

5/11/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003689

NECROPSY RECORD

Material GP IA Control for H #4154 Excipient

Animal Rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 1% CD

Test 2-yr. feeding Phase test Dose Control GP IA Days

H. 4154
No. 70008'
MR No. 787

Test 92
Recovery

Weights
Initial 105
Intermediate
Final 309

T.I. Joan Carver
Ref. CR-787

Observations:

SD

Killed 7-21-65 Survival: P.M. Time General
Died KILLED Method CHCl3 d h m Change Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.94			(Thym./N.F.)	0.78		
(Br./Sp.C.)	1.90			T./Ov.				Thyr./P.T.			
(Ht./B.V.)	0.90			Epd./Fim.				Adren.	0.059		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0.014		
Lungs	1.92	①		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	9.44			Es.(Stom.)	1.80-1.30 mm.P. 7/21/65			Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Right middle lobe completely abscessed

7-21-65
G.N.D.

Cause of Death

Pathologist William C. Krauss
MAR 7-21-65 Date 7/21/65

HISTOPATHOLOGY

EPS
7/21/65

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003690

NECROPSY RECORD

Material Control for H-4154 Pb Acetate Gp TA Excipient ———

H. 4154
No. 10022
MR No. 787

Animal Rat Strain CAFE Sex ♀ Age 672 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days

Test 638
Recovery

Observations:

10-25-66 Solid movable mass 3" left perianal area
1-17-66 mass grown to 5"
1-15-66 " open and bleeding

Weights
Initial 99
Intermediate 413
Final 920

T.I. Ei Mikeli
Ref. ACP-787

KILLED SE

Killed 1-18-67
Died ——— Method CHCl3 Survival: d h m P.M. Time ——— Change ———

General Condition Moribund

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50	3		Thym./N.F.	—		
Br./Sp.C.	2.11			T./Ov.	—			Thyr./P.T.			
Ht./S.V.	1.51			Epd./Flm.				Adren.	0.089	4	1
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026	5	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./P.			
Liver/G.B.	27.70	1	3	Es./Stom.	2.04			Bo.(B.M.)			5
Spleen	1.61	2	4	Du./Je./Il.				Sk./App.	298.40	6	2
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale, edges rounded, lobular markings prominent.

2) Large & dark.

3) M. pale.

4) Dark red brown.

5) M. Large.

1-20-67 GHH

Pathologist L. M. Zinecker

Cause of Death: 1) Sinus from lobules, chit. - dark red, partly necrotic mass left perianal area

Date 1-18-67

HISTOPATHOLOGY 13x11x9.5 Cm

1. Cortex: Focal sinusoidal dilatation ++ ; focal fatty change +
2. Mammary gland area with tubular hyperplasia and acanthosis
3. Fatty change ++, some fatty cysts +
4. Hyperplasia ++
5. Hyperplasia ++

EM 1/20/67

Pathologist EM

Date 1-21-67

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003691

NECROPSY RECORD

Material Control for H # 4154 Excipient

H. 4154
No. 70025
MR No. 787

Animal Rat Strain CR-CD Sex ♀ B.R Age 3/12/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose Control op Ia Days {Test 196 / Recovery

Observations: none

Weights
Initial 104
Intermediate
Final 373
T.I. Elizabeth
Ref. MR-787

SD

Killed 11-2-65
Died KILLED Method CHCl3 Survival d h m P.M. Time Change General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.51			(Thym.)/N.F.	0.40		
(Br./Sp.C.	1.89			T./Ov.				Thyr./P.T.			
Ht./B.V.)	1.00			F.gd./Fim.				Adren.	0.088		
Tr./La./Br.				S.V./P.T.				(Pit./Pin.)	0.022	①	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver/G.B.	12.00			Es./Stom.				Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① left anterior pituitary enlarged slightly

Cause of Death:

Pathologist Gm Zuckerman
Date 11-2-65

HISTOPATHOLOGY

SA
11-3-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003692

NECROPSY RECORD

Material Control for H-4154 Gp 1A Excipient —

H. 41154
No. 70034
MR No. 787

Animal Rat Strain CD Sex F Age 77d Diet GPLC + 10% CO

Test 2yr feeding Phase Test Dose Control Days

Test 743
Recovery

Observations:

Weights
Initial 111
Intermediate 286
Final 518

T.I. E Miller
Ref. NAR-787

Killed 5/3/67 SD Survivals d h m P.M. Time Change

Method CHCl3

General Condition NAD

KILLED

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.78	(2)		Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.58			Epd./Fim.				Adren.	0.084	(3)	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.029		
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.10 ~~4.58~~			Es./Stom.	2.30			Bo./B.M.			
Spleen	1.58	(1)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) large, dark

(2) hydronephrosis - right

(3) mottled dark red-brown

5-3-67
CH
Pathologist Jm Zwickus
Date 5/3/67

Cause of Death: Exp. lost

HISTOPATHOLOGY

5/12/67

Pathologist ___
Date ___

EB-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003693

NECROPSY RECORD

Material Pb Acetate Control Excipient

Animal Rat Strain CR-CD Sex ♀ Age 603 Days Diet 6PLC+12% CO

Test 2yr feeding Phase Test Dose Control Days

Observations

extreme weight loss from 11/4
pallor - moribund 11/10/66

(C) H. 4154 No. 70036 MR No. 787

Test 567 Recovery

Weights (gm)
Initial 105
Intermediate 335
Final 340
T.I. 8 miles
Ref. MR 787

Killed 11-10-66 SC Survival: d h m P.M. Time
Died KILLED Method CHCl3 Change

General Condition moribund - uncoordinated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40		/	Thym./N.F.	—		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.02			Epd./Fim.				Adren.	.096	2	3
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.237	1	4
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.60	3	2	Es./Stom.	1.72			Bo./B.M.			
Spleen	.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Ma			

1. blood filled mass 2×3×5 mm
2. dark color, round with white and brown fungoid foci
3. prominent lobular markings

(adding tumor weights - Tumi 12-20-66 MC)

Cause of Death

Pathologist William C Rowe
Date 11-10-66

HISTOPATHOLOGY

1. fatty change ++
2. fatty change ++ GH
3. focal fatty change ++ 11/11/66
4. adenoma

Pathologist JMH
Date 12-7-67

BS-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003694

NECROPSY RECORD

Material: Pb Acetate Gp I A — Excipient: Control Lot H-4154

Animal: Rat — Strain: CFE CD — Sex: ♀ — Age: 742 Days — Diet: 6 PLC-4% CO

H. 4154
No. 70042
MR No. 787

Test: 2yr Feeding — Phase: Test — Dose: Control — Days: Test 708 / Recovery

Observations: 8-16 hard moveable mass axillary region L. left hind leg
3-28 mass grown to 4" necrotic on surface upon mass bilateral flailing of 1" - impaired mobility

Weights: Initial 207 / Intermediate 371 / Final 761
T.I. E. Miller
Ref. NCR 787

Killed 3-29-67 — Survival: — P.M. Time: — General Condition: as above
KILLED — Method: CHCl3 — d — h — m — Change:

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.05			Thym./N.F.	—		
Br./Sp.C.	2.20	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.90			Epd./Fim.				Adren.	0.201	3	R-.158 L-.043
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.211	4	
Lungs	1.74			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.70			Es./Stom.	2.46			Bo./B.M.			
Spleen	1.34	2		Du./Je./Il.				Sk./App.	20.70	5	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	320.75		

1) Brain engorged diffusely - esp pituitary area
2) Large, dark red -
3) Right - large, dark red -
4) Vascular mass - 0.9 x 0.7 x 0.9 Cm
5) Breast - firm, grey-white - extends to right fore limb - (mammary type) 3.75 Cm. dia

3-29-67
Pathologist C.S.M. Dr Zweker
Date 3-29-67

Cause of Death: Bilateral mass - firm, grey-brown-white; partly necrotic, extending to skin

HISTOPATHOLOGY

Control-Rx material: (Certified Left inguinal area) 13 x 11 x 5 Cm.

9/11
3/30/67

Pathologist
Date

WHITE—PATHOLOGY-FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003695

NECROPSY RECORD

Material Pb acetate 4% in Control Excipient

Animal Rat Strain CD Sex ♀ Age 582 Days Diet GLC + 5% Co

Test 2yr feeding Phase test Dose Control Days

Observations: none

H. 454
No. 70043
MR No. 787
Test 548
Recovery
Weights
Initial 140
Intermediate 302
Final 277
T.L. E. Miller
Ref. MR-787

Killed 10-20-66 SD
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.12			Thym./N.F.			
Br./Sp.C.	1.98			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.01			Epd./Flm.				Adren.	.1056		
Tr./La./Br.				S.V./P.T.				Plt./Pln.	.028		
Lungs	1.42			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	10.62			Es./Stom.	1.42			Bo./B.M.			
Spleen	.55			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. cystic liver - black focus 2 mm in diameter

10-20-66
ARM
Pathologist William C. Reuzel
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

SD
6/24/66

Pathologist
Date

EB-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY YELLOW PINK—TOXICOLOGY GROSS

DUP040003696

NECROPSY RECORD

GpIA Material Control Excipient

Animal Rat Strain CR-CD Sex ♀ Age 645 d Diet GPLS 12 C.O.

Test 2 yr. feeding Phase Dead Dose GpIA Control Days

Observations Weight losses since 9/66

Mass anterior to left femur

FOUND DEAD Body in bag

Hi 4154
No. 70061
MR No. 787

Test 611
Recovery

Weights
Initial 105 (4-20-66)
Intermediate 732 (9-13-66)
Final 530 (12-22)
T.E. Miller (2m)
Ref. MC 787-24p feeding

Killed
Died 12-22-66 Method
Survival d h m
P.M. Time 2 hr
Change 2 hr
General Condition As above

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.			
Br./Sp.C.		1		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Tim.				Adren.		4	
Tr./La./Bc.				S.V./P.T.				Pit./Pin.		5	
Lungs		2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./P.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.		6	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		7	

1) Pale yellow + soft.

2) Irregular congestion

3) M. pale + granular

4) Dark brown + slightly large

5) Hypertrophic, dark red focus, anterior pituitary

12-22-66
CH
Pathologist William C. Knowles
Date 12-22-66

Cause of Death 6) Diffuse milky exudate

HISTOPATHOLOGY

7) Bilateral corneal opacity

12/27/66

Pathologist
Date

BR-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY AUDIO PINK—TOXICOLOGY GROSS

DUP040003697

NECROPSY RECORD

Material: Acetate Yeast Control Excipient:

Animal: Rat Strain: CD (D) Sex: F Age: 582 Days Diet: GLC + 12% CO

Test: 2 yr feeding Phase: Ext Dose: Control Days: Test 578 / Recovery

Observations: None

H. 4454
No. 70068
MR No. 787

Weights
Initial 85
Intermediate 389
Final 440

T.I. Ea. Mole
Ref. MR-787

Killed 10-20-66 Survival: P.M. Time:
Died KILLED Method CO2 d h m Change:

General Condition: NAD

GROSS PATHOLOGY

Unless indicated on abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.P.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	~~2.00~~	1.30		Epd./Pim.				Adren.	.070		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.018	1.	
Lungs	~~2.60~~	1.30		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.90	2		Es./Stom.	1.73			Bo./B.M.			
Spleen	.62			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Immature female rat
2. 8 mammillary tumors

10-20-66
CHL
Pathologist: William C. Rinehard
Date: 10-20-66

Cause of Death:

HISTOPATHOLOGY

CHL
10/24/66

Pathologist
Date

CHRONIC TOXICOLOGY GROSS

DUP040003698

FEEDING NECROPSY RECORD

Material Control Lot H 4154 Cp IA Excipient

Animal Rat Strain CD Sex F Age 175 Diet 8PLC + 1% CO

Test 2 yr feeding Phase test Dose Control Cp IA Days

H. 4154
No. 74070
MR No. 787

Test 741
Recovery

Weights
Initial 96
Intermediate 365
Final 798
T.I. Cuddle
Ref. MR 787

Observations: 1.51 x solid movable mass 1" Left Lip
mass at perineal area 1½"

Killed 5/1/67 SD
Died KILLED Method CHCl3 Survival d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Pm.				Adren.	0.079	2	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.034	②	
Lungs	1.65			Pr./Ur.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.38	①		Es./Stom.	2.62			Bo./B.M.			
Spleen	1.09			Du./Je./Il.				Sk./App.	0.36.85 0.12.35	②	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Lobular markings prominent, edges rounded
② Mottled dark red brown
③ Hypertrophied
④ Diffuse non-encapsulated type mass right inguinal area - 2.7x5x2cm
⑤ Firm, pale, nodular mass anterior to left hind leg 2.5cm Diameter

5-1-67

Pathologist Dr Zureka
Date 5/1/67

Cause of Death

HISTOPATHOLOGY

RR 5-1-67

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003699

NECROPSY RECORD

Material: Lactic Acid Excipient:

Animal: Rat Strain: CR-CD Sex: ♀ Age: 407 days Diet: GPLC #10 CO

Test: 2yr. feeding Phase: test Dose: Control Days:

H. 4154
No. 70084
MR No. 787
Test 373
Recovery

Observations:

Weights
Initial 110
Intermediate 380
Final 510
T.I.: E. Miller
Rel.: Blackstone Lyn Stuart

KILLED SD

Killed
Died 4/28/66 Method: CO2 Survival: d h m P.M. Time: Change:

General Condition: small mass posterior to rt. forelimb

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./S.V.	1.40			Epd./Fim.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.3			Es./Stom.	2.30			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./(Appl.)	3.10	(1	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Small mass; cream colored, cut surface firm

(No eye - on freezing OH 5-24-66)

Pathologist: Em Zuricki
Cause of Death: Date: 4/29/66

HISTOPATHOLOGY

Pathologist
Date

CR-3420 WHITE-PATHOLOGY FILE BLUE-TOXICOLOGY FILE PINK-TOXICOLOGY GROSS

DUP040003700

NECROPSY RECORD

Material: Control for H-454-Gp I A Excipient: —

H. 454
No. 70097
MR No. 787

Animal: Rat Strain: CR-CD Sex: F Age: 376 Days Diet: GPLC + 1% CO

Test: 2yr feeding Phase: Test Dose: Control Gp I A Days: Test 743, Recovery

Observations:
Continued wgt loss from 2/28
5½ mm position to rt forlimb 1"
" anterior " hindlimb 1"
" " left hindlimb 1"

Weights: Initial 410, Intermediate 377, Final 475
T.I. E Klein
Ref. NM-787

Killed: 5-3-67 Survival: P.M. Time:
Died: KILLED Method: OHL d ___ h ___ m ___ Change:
General Condition:

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.15			Thym./N.F.			
Br./Sp.C.	2.00	①		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.019 / 0.122	rt ②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.222	③	
Lungs	1.85			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.70			Es./Stom.	2.42			Bo./B.M.			
Spleen	0.65			Du./Je./Il.				Sk./App.		④	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① pale yellow tissue colo. Compressed & base dorsally, re-pituitary mass
② rt adrenal enlarged
③ dark-red vascular mass 1-.5-.5 cm
④ rt lower mass - dark red lobular 1.5 cm diam mammary type rt lower pectoral group
⑤ same description - upper inguinal group (rt) 3-2.5-1.5 5567
⑥ same description 1.2 cm diam - left upper inguinal group OM

Pathologist: Sam Zurcher
Cause of Death: (all tissues - condemned dark brown fluid & caseous material) GJF
Date: 5-12-67

HISTOPATHOLOGY

9 10 69
5 17

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040003701

NECROPSY RECORD

Material Pb Acetate, Gp III .005% Pb Excipient —

Animal Rat Strain CD#1CD Sex M Age 762 Days Diet GPLC + 1% Ca

Test 2 yr feeding Phase test Dose .005% Pb 50 PPM Days {Test 728 / Recovery

H. 4154
No. 69420
MR No. 787

Observations:

Weights
Initial 114
Intermediate 640
Final 820 3/28
T.I. EH Miller
Ref. MP: 784

Killed FOUND DEAD Survival: P.M. Time

Died E.D. 4-18-67 Method — d h m Change

General Condition rigid, obese cadaver; area around nose + mouth stained dark red-brown

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor.)/Abd.		(1)		Kidney		(5)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./(B.V.)		(2)		Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs	9.25	(3)		Pr./Ut.				Sal./Lac.			
L.N.				(Bl.)/Ur.		(6)		N./M./F.			
(Liver)/G.B.		(4)		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) contained mod. amt. of red-brown fluid

(2) aorta: enlarged + rigid; severe arteritis in mesenteric vessels

(3) lungs heavy; all lobes overinflated + turgid, discolored dark red (cut surface oozed red turgid fluid),

(4) enlarged (swollen)

4-18-67 MRC
Pathologist G M Zuercher

Cause of Death:

Date 4-18-67

HISTOPATHOLOGY

(5) both kidneys were pale tan, granular + cystic and spongy; cut surface showed reddened medullae with turbid red-brown fluid in cavity.

(6) bladder greatly distended with turbid, darkish, red-brown fluid

RGL
4/19/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003702

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

Animal Rat Strain Chl. CD Sex M Age 772 Diet GPLC + 1% Ca

Test 2yr feeding Study Phase Test Dose .005% Pb 50 PPM Days Test 738 Recovery

H. 41574
No. 69442
MR No. 787

Weights
Initial 123
Intermediate 645
Final 1003
T.I. E Miller
Ref. Kel. 787

Observations:
4/18 mass 2" right hip

Killed 4/27/67 Killed Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.75			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.	4.16			Thyr./P.T.			
Ht./B.V.	2.25			Epd./Fim.				Adren.	0.064		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.016		
Lungs	2.18			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.95			Es./Stom.	3.85			Bo./B.M.			
Spleen	1.20			Du./Je./Il.				Sk./App.	98.05	0	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

0 Subcutaneous mass 6.5 D x 4 Ht. cm firm, whitish tissue, small portion of tissue dark red brown.

4-28-67 MRC
Pathologist Sam Zuricks
Date 4/28/67

Cause of Death:

HISTOPATHOLOGY

4.0.67
5

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003703

NECROPSY RECORD

Material: Lead Acetate Excipient:

H. 41547
No. 69446
MR No. 787

Animal: Rat Strain: CAR-CD Sex: ♂ Age: 3/17/65 B.D. Diet: GPLC + 1% Ca

Test: 2yr. feeding Study Phase: test Dose: H# 4154 0.005% Pb GRTH. Days: Test 197, Recovery

Observations: none

Weights: Initial 133, Intermediate, Final 589

T.I. Cleg. Mueller
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition: NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.31			Thym./N.F.	.69		
Br./Sp.C.	2.19			T./Ov.	4.10			Thyr./P.T.			
Ht./B.V.	1.75			Epd./Fim.				Adren.	.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.014		
Lungs	2.09	1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.60			Es./Stom.				Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 1x2 mm of dark brown foci on all surfaces of lobes of lungs
anterior margin rt. cardiac lobe has a 4x5 mm red brown abscess

Cause of Death:

Pathologist G.M. Zuckes
Date 11/3/65

HISTOPATHOLOGY

GH
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003704

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

Animal Rat Strain CAR·CD Sex M Age 772 Diet GPLC+1% CO

H. 4154
No. 69452
MR No. 787

Test 2yr feeding Phase Recovery Dose .005% Pb 50 PPM Days { Test 538 / Recovery

Observations: Continuous wgt loss from 12/6

Weights
Initial 724
Intermediate 702
Final 760
T.I. 2-Miles
Ref. NAP-787

Killed 4-26-67
Died KILLED Method C4H6Cl2 Survival: d h m P.M. Time Change

General Condition mass post to rt foreleg

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.20	(4)		Thym./N.F.			
Br./Sp.C.	2.15			T./Ov. Rt Lt	2.12 2.15	(3) (6)		Thyr./P.T.			
Ht./B.V.	2.25	(7)		Epd./Fim.				Adren.	0.122		
Tr./La./Br.	3.25			S.V./F.T.				Pit./Pin.	0.018		
Lungs	3.45			Pr./Ut.				Sal./Lac.			
L. N.		(5)		Bl./Ur.				N./M./F.			
Liver/G.B.	23.60	(8)		Es./Stom.	3.35			Bo./B.M.			
Spleen	2.40	(9)		Du./Je./Il.				Sk./App.	5.80	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) 3·5 Cm - 2 cm - 1 cm - Soft; Cut surface white
(2) preauricular of rt. lacrimal
(3) rt. small soft blue brown.
(4) discolored dark brown focal necrosis cystic area 2-3 mm across coarse to section
(5) thymal l. n. enlarged - filled w grey purulent exudates.
(6) rt small left firm large - Both kept for microscopic
(7) rt ventricular wall - grey firm tissues
(8) slightly rounded margins - coarse to section.
(9) Splenomegaly.

Cause of Death:

Pathologist Sam Zuricken
Date 4-26-67

HISTOPATHOLOGY

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003705

NECROPSY RECORD

Material Gp III Lead Acetate Excipient

H. 4154
No. 69458'
MR No. 787

Animal rat Strain CRL-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .005% (50 ppm) Pb Gp III Days

Test 91
Recovery

Observations:

Weights
Initial 115
Intermediate
Final 518

T.I. J. Carew
Ref. MK-787

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.15			Thym./N.F.	0.70		
Bl./Sp.C.	2.18			T./Ov.	3.89			Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.40			Es./Stom.	1.81			Bo./B.M.			
Spleen	~~0.57~~	0.75 MAR 7/20/65		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-20-65
Cx'd.
Pathologist William C. Krauss
MAR 7-20-65 Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

94 S
7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003706

NECROPSY RECORD

Material Pb Acetate Kyo III .005% Pb Excipient —

Animal Rat Strain CFE-CD Sex ♂ Age 580 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50PPM Days Test 546 Recovery

H. 4454
No. 69475
MR No. 787

Observations: none

Weights
Initial 113
Intermediate 710
Final 1025
T.I. E. Miller
Ref. MR 787

Killed 10-18-66
Method KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition nad.

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.89			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.30			(T.)/Ov.	4.15			Thyr./P.T.			
(Ht.)/B.V.	2.11			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.013		
Lungs	2.20			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	26.15			Es./(Stom.)	3.21			Bo./B.M.			
Spleen	0.99			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

10-18-66
CWM Pathologist William C. Krauss
IMP 10-18-66 Date 10-18-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003707

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 4154
No. 69488
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .005% (50ppm) Pb GP III Days Test 91 Recovery

Observations:

Weights
Initial 106
Intermediate
Final 570

T.I. J. Carnes
Ref. MR-787

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.79			(Thym.)/N.F.	0.70		
(Br.)/Sp.C.	2.03			(T.)/Ov.	3.55			Thyr./P.T.			
(Ht.)/B.V.	1.50			Epd./Fim.				Adren.	0.049		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015		
Lungs	1.87			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	19.37			Es./(Stom.)	1.89			Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-20-65
Pathologist William C. Krauss
Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003709

NECROPSY RECORD

Material Pb Acetate 4% W .005% Pb Excipient ———

H. 4454
No. 694921
MR No. 787

Animal Rat Strain CAR.CD Sex ♂ Age 580 Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days Test 546 Recovery

Observations: none except weight loss from 9/27

Weights
Initial 101
Intermediate 708
Final 948
T.I. E. Miller
Ref. MR-787

Killed 10-18-66
Died KILLED Method CHCl3 Survival: d h m
P.M. Time
Change
General Condition N.A.D.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.23	(1)		(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.45			(T.)/Ov.	4.30			Thyr./P.T.			
(Ht.)/B.V.	1.92			Epd./Flm.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.018		
Lungs	2.35			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	21.40			Es./(Stom.)	1.83			Bo./B.M.			
Spleen	1.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale kidneys; hydronephrosis, right

10-18-66 Pathologist William C. Rowe
MR 10-18-66 Date 10-18-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003710

NECROPSY RECORD

Material Pb acetate .005% Pb Hydr. Excipient —

H. 41654
No. 69498'
MR No. 787

Animal Rat Strain CFE Sex ♂ Age 580 Days Diet 6% LC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50ppm Days {Test / Recovery}

Observations: none

Weights
Initial 116
Intermediate 710
Final 311
T.I. E. Miles
Ref. MLD-787

Killed 10-18-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition MOD. (see below)

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.00			(Thym.)/N.F.	—		
(Bl.)/Sp.C.	2.15			(T.)/Ov.	3.96			Thyr./P.T.			
(Ht.)/B.V.	2.60			Epd./Fim.				Adren. (Kidney only)	0.042		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.019		
Lungs	2.42			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	24.39			Es./(Stom)	3.58			Bo./B.M.			
Spleen	1.2			Du./Je./Il.				(Sk.)/App. mass	29.50	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) subcutaneous, circular mass, 3cm x 3cm x 3cm, firm in right inguinal area.

Pathologist William C. Krause
10-18-66 Date 10-18-66

Cause of Death:

HISTOPATHOLOGY

12/9/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003711

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 695021
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose Grp III .006% Pb Days Test 371 Recovery

Observations:

Weights
Initial 108
Intermediate 770
Final 822
T.I. E. Miles
Ref. Pb acetate 2yr study

KILLED

Killed 4-25-66 Survival: P.M. Time

Died Method $CHCl_3$ d h m Change

General Condition (small) cadaver, moderate amount of pat. fat

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.60	2		Thym./N.F.	—		
Br./Sp.C.	2.12			T./Ov.	3.50			Thyr./P.T.			
Ht./B.V.	1.41			Epd./Fim.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.56			Pr./Ut.				Sal./Lac.		3	
L. N.				~~Ut.~~				N./M./F.			
Liver/G.B.	13.32	1		Es./Stom.	2.30			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- Small

2- Left kidney very small 0.70gm; pale red-brown; firm.
right kidney, large, 1 caudate lobe of liver adhered to medial surface
large stone in Pelvis
Ureter somewhat dilated.

Pathologist G.M. Zweers
Cause of Death: MR 4-25-66 Date 4-27-66

HISTOPATHOLOGY

1 Urinary bladder filled with smooth globular white-cream colored stones. Wall thickened, mucosa red

3- Prosoplasia - mild.

8/11
4/27/66

- As Do Bladder & Kidney ~~hyperplasia~~ (hyperplasia)

Pathologist B.C.
Date 10. 3. 69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003712

NECROPSY RECORD

Material: Lead Acetate Excipient:

Animal: Rat Strain: Chk-CD Sex: ♂ B.D. Age: 3/17/65 (23d) Diet: GPLC + 1% CO

Test: 2yr. feeding Study Phase: test Dose: H # 4154 0.005 % Pb Days: Test 197, Recovery:

Observations: Norie

H. 4154
No. 695-19
MR No. 787

Weights
Initial 129
Intermediate
Final 709
T.I. Eliz. Mueller
Ref. MR-782

Killed 11-3
Red KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.00			Thym./N.F.	.69		
Br./Sp.C.	2.10			T./Ov.	4.55			Thyr./P.T.			
Ht./B.V.	1.79			Epd./Fim.				Adren.	.047		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.013		
Lungs	2.00			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.75			Es./Stom.				Bo./B.M.			
Spleen	.89			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Cause of Death:

Pathologist Gm Zucker
Date 11/3/65

HISTOPATHOLOGY

gff
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003713

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4454
No. 69522'
MR No. 787

Animal Rat Strain ACR-CD Sex ♂ Age 404 days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose Gp III .005% Pb Days Test 371 Recovery

Observations:

Weights
Initial 718
Intermediate 630
Final 727
T.I. E. Miles
Ref. Pb Acetate 2yr Study

KILLED

Killed 4-25-66
Died Method CHCl3 Survival: d h m Change P.M. Time

General Condition NAD; mild amount fat

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.10			Thym./N.F.			
Br./Sp.C.	2.23			T./Ov.	3.80			Thyr./P.T.			
Ht./B.V.	2.10			Epd./Fim.				Adren.	.060		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.017		
Lungs	3.31	(2)		Prs/Ut.		(3)		Sal./Lac.		(1)	
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.09			Es./Stom.	3.32			Bo./B.M.			
Spleen	.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) ext. lacr. gland marked proliferation (discolored pink-brown)

(2) multiple pin-point brown foci over lung surfaces; focal alveolar emphysema; post. medial ⅓ of diaphragmatic surface firm, red brown

(3) prostate enlarged, bilateral

Cause of Death:

Pathologist JMZ
MMR Date 4-27-66
4-25-66

HISTOPATHOLOGY

EH
4/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003714

NECROPSY RECORD

Material Pb acetate Hpth .005% Pb Excipient —

H. 4154
No. 69482'
MR No. 787

Animal Rat Strain CAR-CD Sex ♂ Age 550 Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50ppm Days Test 546 Recovery

Observations: none

Weights
Initial 126
Intermediate 640
Final 855
T.I. E. Miller
Ref. MR 787

Killed 10-18-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	C.50			Thym./N.F.	—		
Br./Sp.C.	2.28			T./Liv.	4.38			Thyr./P.T.			
Ht./B.V.	2.38			Epd./Fim.				Adren.	0.080		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	2.18			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.32			Es./Stom.	3.80			Bo./B.M.			
Spleen	1.12			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

Cause of Death:

Pathologist William C. Krauss
MAR 10-18-66 Date 10-18-66

HISTOPATHOLOGY

WNL
10/19/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003708

NECROPSY RECORD

Material Lead Acetate Hyd III Excipient —

H. 41154
No. 76094
MR No. 787

Animal Rat Strain CDF-CD Sex ♀ Age 554 days Diet BPLC + 1% CO

Test 2yr. feeding Phase test Dose 1% Pb Days Test 520 Recovery

Observations:
Continuous weight loss -
3/1/66 mass next to st. hind leg 1" diameter
3/8/66 mass at perineal area right & mammilla 1½"
FOUND DEAD 3/16/66 mass grown to 2½" 9/13 pallor

Weights
Initial 89
Intermediate 518
Final 312 9/13/66
T.I. E-Hicks
Ref. 14R-787

Killed — Survival: P.M. Time ?
Died F-dead Method — d h m Change advanced

General Condition placid cadaver; thin, dehydrated; mass as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor./Abd.)		(1)		Kidney		(4) ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.		(2) ✓		Epd./Flm.				Adren.			✓
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)			✓
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)		(3) ✓		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				(Sk./App.)		(5) ✓	
Pancreas				Ce./Co./Re.				Ey/Eo/No/Mo			

(1) small amt yellowish tinged fluid in the cavity (P.M. change?)
(2) moderately stiff aorta
(3) liver very friable tissue, friable
(4) friable tissue
(5) subcuta some mass right perineal region; semi firm, white, lobulated tissue.

9-22-66 bnb
Pathologist L-M Zwicker
Date 9-26-66

Cause of Death:

HISTOPATHOLOGY

Kid: nephrosis +++; interstitial fibrosis ++; tubular hyperplasia ++

9/23/66

Pathologist RCL
Date 2-3-69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003553

N 26417

NECROPSY RECORD

Material GP IV Lead Acetate Excipient

H. 4154
No. 70101
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase Test Dose .01% (100 ppm) Pb Days Test 93 / Recovery

GP IV

Observations:

Weights
Initial 106
Intermediate
Final 266
T.I. J. Cuneo
Ref. ML-787

KILLED SD

Killed 7-22-65 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.89			Thym./N.F.	0.59		
Br./Sp.C.	1.84			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.90			Epd./Flm.				Adren.	0.052		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.016		
Lungs	1.10			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.27			Es./Stom.	1.30			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-22-65
G.H.D. William C. Rhoads
Pathologist
7-22-65 Date 7-22-65

Cause of Death:

HISTOPATHOLOGY

9-27-65

Pathologist
Date

EB-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003554

NECROPSY RECORD

Material Pb Acetate Gp IV: .01% Pb Excipient ———

H. 4154
No. 69765
MR No. 787

Animal Rat Strain CDR-CD Sex F Age 776 Diet GPLC + 1% CD

Test 2yr feeding Phase Test Dose .01% Pb 100 ppm Days { Test 742 / Recovery ———

Observations:

Weights
Initial 88
Intermediate 332
Final 682
T.I. G Miller
Ref. MMR-787

Killed 5/2/67 SD Survival: P.M. Time ——— General Condition NAD
Died KILLED Method CHCl3 d ___ h ___ m ___ Change ———

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.82			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.65			Epd./Flm.				Adren.	0.102	②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.048	①	
Lungs 3.80	3.85	③		Pr./Ut.		~~—~~		Sal./Lac.			
L. N.				Bl./Ur.		~~—~~		N./M./F.			
Liver/G.B.	16.95			Es./Stom.	2.60			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Hypertrophy
② Pit. – dark, red vascular
③ Lung – medium lobe abscessed, heavy

5-2-67
Pathologist Jim Zweigle
Date 5/2/67

Cause of Death:

HISTOPATHOLOGY

5-12-67

Pathologist ———
Date ———

FB-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003555

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69772
MR No. 787

Animal Rat Strain CAR-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% C.O.

Test 2yr. feeding Study Phase Test Dose H# 4154 .01% IV Days { Test 191 days / Recovery

Observations: Animal used in reproduction study; found dead 14 days after delivery of normal litter of 14 in F1B generation

Weights
Initial 103
Intermediate
Final
T.I. Eliz. Mutter
Ref. MR-787

FOUND DEAD
Killed 10-28-65 3:30 PM. Survival: P.M. Time 12 hrs
Died FD 10-28-65 Method d h m Change Autolysis
General Ventral surface dark
Condition Green

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor.(Abd.)		1.		Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Flm.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.		1.		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Green gastric T. first 5 cm of duodenum bright red, hemm, filled with gas and fluid a 360° torsion of the duodenum with intussusception in the proximal.

2. filled with serosanguinous fluid

All organs showed advanced post mortem change.

Pathologist William E. Krauss
Date 10-28-65

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY; FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003556

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CD-CD Sex ♀ Age 407 days Diet GPLC+1% Ca

Test 2yr feeding Phase Test Dose Gp III .01% Pb Days

H. 4154
No. 49787
MR No. 787

Test 373
Recovery —

Observations:

Weights
Initial 88
Intermediate 335
Final 400
T.I. E. Miles
Ref. Pb Acetate 2yr study

Killed 4/12/66 SD
Died — Method CHCl3

Survival: d — h — m —

P.M. Time —
Change —

General Condition NAD

Rt apical lb firm red brown 2/3 raised bright pink c.e. 4/12/66

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.50			Thym./N.F.			
Br./Sp.C.	1.95			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.20			Epd./Fim.				Adren.	0.070		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.015		
Lungs	2.10	①		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	10.58	②		Es./Stom.	1.70			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Rt apical lobe 1/3 firm, red brown; 2/3 bright pink, raised (emphysematous).

② 2x2 mm white focus intra margin central lobe

Pathologist Jim Zwicker
Date 4/18/66

Cause of Death:

HISTOPATHOLOGY

JFF
4/29/66

Pathologist —
Date —

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003557

NECROPSY RECORD

Material Pb Acetate Hpt .01% Pb Excipient —

H. 4454
No. 69794
MR No. 787

Animal Rat Strain CBL-W Sex ♀ Age 580 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .01% Pb 100 PPM Days { Test 546 / Recovery

Observations: none

Weights
Initial 99
Intermediate 334
Final 442
T.I. E. Miller
Ref. NR-787

Killed 10-18-66 SD
Died KILLED Method CHCl₃ Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.30			Thym./N.F.	—		
Br./Sp.C.	2.20			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.10			Epd./Fim.				Adren.	0.054		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024		
Lungs	1.24			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.25			Es/Stom.	1.91			Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

10-18-66 WCK
Pathologist William C. Krause

Cause of Death:

MAR 10-18-66 Date 10-18-66

HISTOPATHOLOGY

10/19/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003558

NECROPSY RECORD

Material GpIV Lead Acetate Excipient

Animal Rat Strain Ole-SD Sex ♀ Age 653d. Diet GPLC+12%C.O.+dilute

Test 2 yr. feeding Phase Test Dose .01% Pb - GpIV Days

Observations: Gasping on 12/29/66
Weight losses for a month

H. 4154
No. 69803
MR No. 787
Test 619
Recovery
Weights
Initial 705 (9:20-65)
Intermediate 720 (11-22-66)
Final 620 (12-28-66)
T.I. Ea. Mules (2m)
Ref. MR 787

FOUND DEAD

Killed / Died 12/30/66 8:00 AM Method Survival: d h m P.M. Time overnight Change ado.

General Condition Blue extrem. Cannibalized around head & neck region.

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor)/Abd.		1		Kidney			✓	Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.			✓	Epd./Fim.				Adren.		3 ✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		2 ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Eo/No/Mo			

1) Small amount of pale brown fluid.

2) Dull red & white fibrous adhesions. Right middle lobe involved & fluid filled & red nodular mass occupying the entire right thorax.

3) Large & dark.

(✓) Tissue saved.

12-30-66 C.H.H. Pathologist William C. Krauss

Cause of Death: Date 12-30-66

HISTOPATHOLOGY

1

RL 1/3/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003559

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient —

Animal Rat Strain CR CD Sex ♀ Age 637 Days Diet GPLC + 12% CO

Test 2yr feeding Phase Test Dose .01% Pb 100 PPM Days Test 603 Recovery

H. 4154
No. 69806
MR No. 787

Weights
Initial 96
Intermediate 395
Final 12/6 479
T.I. E Klein
Ref. MK 787

Observations:
wgt loss since 11/22
Solid moveable mass posterior to R foreleg
12/14 Markland, pallor

Killed 12-14-66 SE
Died — Method CHCl3 — d — h — m — Survival: — P.M. Time — Change —

General Condition As above.

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.41			Thym./N.F.	—		
(Br)/Sp.C.	2.15	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	0.075	3	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.110	4	
Lungs	1.44			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.05	2		Es./Stom.	1.91			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				(SK)/App.	3.03	5	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale yellow. Base depressed centrally - re. pituitary mass.

2) Al. pale, lobular markings prominent

3) Dark red brown.

4) Soft, vascular mass (some blood loss upon removal) 0.7 Cm. dia.

5) Firm, movable mass. Yellow-grey, posterior to right fore leg (pectoral group) mammary like (2 Cm. dia.)

12-14-66
R.H.
Pathologist Y.M. Zuckus
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

mammary adenofibroma

RH
12/21/66

Pathologist SCS
Date 12-2-69

BR-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003560

NECROPSY RECORD

Material Pb Acetate Gp II .01% Pb Excipient —

Animal Rat Strain CR·CD Sex F Age 773 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .01% Pb 100 PPM Days

H. 4154
No. G 9808
MR No. 787
Test 739
Recovery

Observations:
Continued wet caps from 11-22-66
2/14 stained perineal area

Weights
Initial 116
Intermediate 460
Final
T.I. E Miller
Ref. MR 787

Killed BLIND DEAD Survival: P.M. Time
Died Found Method d h m Change Advanced
4-23-67

General Condition Slender dehydrated emaciated Cachexia with rounded head top

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.		/		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		2	
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/Na/Mo			

1- Exposed dorsal foam pituitary mass
2- mass nearly filled cranial cavity. Very little room left for brain.

Cause of Death:

Pathologist G.M. Zuricks
Date 5-5-67

HISTOPATHOLOGY

GMZ 5.9.67

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003561

NECROPSY RECORD

Cp-IV

Material Lead Acetate Excipient

H. 4154
No. 69815
MR No. 787

Animal rat Strain Ch E-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase Test Dose .01% (100 ppm) Pb GDIV Days Test 93 Recovery

Observations:

Weights
Initial 109
Intermediate
Final 364
T.I. J. Cano
Ref. MR-787

KILLED

Killed 7-22-65 5D Survival: P.M. Time
Died Method d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.31			Thym./N.F.	0.69		
Br./Sp.C.	1.80			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.01			Epd./Flm.				Adren.	0.028		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	1.28			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.51			Es./Stom.	1.49			Bo./B.M.			
Spleen	0.51			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

* One missing in weight Att 12-19-65

Cause of Death:

Pathologist William E. Powers
Date 7-22-65

HISTOPATHOLOGY

EPP
1-23-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003562

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69524
MR No. 787

Animal Rat Strain CR CD Sex M Age 770 Days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days { Test 736 / Recovery

Observations:
intermittent wgt loss
11/8/66 swallow contaminated food (Dept head)

Weights
Initial 116
Intermediate 715
Final 1100
T.I. Eckles
Ref. NAR-787

Killed 4-26-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.30			Thym./N.F.			
Br./Sp.C.	2.28			T./Ov.	3.75			Thyr./P.T.			
Ht./B.V.	2.45			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024		
Lungs	3.36			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.35	D		Es./Stom.	3.42			Bo./B.M.			
Spleen	2.15			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

D slightly granular & swollen. Adhesions between lobes

4-26-67
NAR
Pathologist Jen Zucker
hmb
GLF Date 4-26-67

Cause of Death:

HISTOPATHOLOGY

5/10/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003715

NECROPSY RECORD

Material Pb. Acetate Grp III .05% Pb Excipient ———

Animal Rat Strain Chl CD Sex ♂ Age 623 Days Diet GPLC 4 1% CO

Test 2 yr. feeding Phase Test Dose 50 ppm .05% Pb Days

Observations: none

H. 4154
No. 69527
MR No. 787
Test 589
Recovery ———

Weights
Initial ———
Intermediate 832
Final 11/22 1097
T.I. E. Miller
Ref. MR. 787

Killed FOUND DEAD Survival: P.M. Time 15 min ?
Died F.D.D. Method — d ___ h ___ m ___ Change none

General Condition very obese; cadaver still warm

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ← No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(1)		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one 5mm dia., red-brown, slightly raised nodule within parenchyma of left lobe; liver appeared to be slightly swollen

(2) both kidneys were brownish in color; cut surface showed brownish cortical region, reddish, striated medullary regions.

12-1-66
MAR L Zwicker
Pathologist
Date 12-1-66

Cause of Death:

HISTOPATHOLOGY

RH
12/3/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003716

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ~~D&W~~

Animal Rat Strain CHR-CD Sex M Age 741 Days Diet GPLQ+1% @ 0

Test 2yr feeding Phase Test Dose .005% Pb 50 ppm Days

H. 4154
No. 69534
MR No. 787
Test 707
Recovery

Observations:
Continuous wgt loss since 8/30/66
Small abscess on left hind foot

Weights
Initial 126
Intermediate 750
Final 812 564
T.I. C Mill
Ref. MR 787

FOUND DEAD

Killed
Died 3-28-67 Method
Survival: d h m
P.M. Time
Change
General Condition as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		1		Thym./N.F.			
Br./Sp.C.		not saved.		T./Ov.				Thyr./P.T.			
Ht./B.V.		WNL		Epd./Fim.		WNL		Adren.		WNL	
Tr./La./Br.		WNL		S.V./F.T.		WNL		Pit./Pin.		WNL	
Lungs		WNL		Pr./Ut.		WNL		Sal./Lac.		WNL	
L. N.		WNL		Bl./Ur.		WNL		N./M./F.		WNL	
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Hydronephrosis, bilateral. Pale brown.

3-28-67
O.M.
Pathologist GM Zuwicker
Date 3-28-67

Cause of Death:

HISTOPATHOLOGY

GH
3/30/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003717

NECROPSY RECORD

Material Pb Acetate Hydr. .005% Pb Excipient ———

Animal Rat Strain CRL-CD Sex ♂ Age 580 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50PPM Days

Observations: 10/5/65 swollen neck gland

H. 41154
No. 69557
MR No. 787
Test 546
Recovery
Weights
Initial 920
Intermediate 762
Final 1010
T.I. C. Miller
Ref. MR-789

Killed 10-18-66
Died KILLED Method CHCl3 d h m
Survival:
P.M. Time
Change
General Condition moo.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.72	(2)		(Thym.)/N.F.			
(Br.)/Sp.C.	2.40			(T.)/Ov.	3.01			Thyr./P.T.			
(Ht.)/B.V.	2.22			Epd./Fim.				Adren.	0.047		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.019		
Lungs	3.32	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	24.82			Es./(Stom.)	3.40			Bo./B.M.			
Spleen	1.85	(3)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple red foci, 0.5mm to 2.0 mm diam, over all surfaces, all lobes; heavy

(2) anterior pole, left kidney, white nodule, 4mm diam.

(3) Slightly heavy WCIS

10-18-66
Pathologist William C. Rowe
MR 10-18-66 Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

9H
10/19/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003718

NECROPSY RECORD

Material Pb Acetate Cap III 1005% Pb Excipient ———

Animal Rat Strain CAR CD Sex M Age 769 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days

H. 4454
No. 69553
MR No. 787

Test 735
Recovery

Observations: Continued sporatic wgt loss since 10/25/66

Weights
Initial 108
Intermediate 593
Final 818
T.I. E Miller
Ref. MR. 787

Killed 5-25-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.30	④		Thym./N.F.			
Br./Sp.C.	2.18			T./Ov.	4.90			Thyr./P.T.			
Ht./B.V.	2.10	①		Epd./Fim.				Adren.	0.142	②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.016		
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.30	③		Es./Stom.	3.40			Bo./B.M.			
Spleen	1.42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① arteritis

② left adrenal enlarged.

③④ pale brown granular

5/25-67
Pathologist: Im Zwicker
Date 5-25-67

Cause of Death:

HISTOPATHOLOGY

5/25 67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003719

NECROPSY RECORD

Material Pb acetate Gp III .005% Pb Excipient ———

H. 4454
No. 69560
MR No. 787

Animal Rat Strain CBR CD Sex M Age 731 Days Diet 6PLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days { Test 697 / Recovery

Observations: Continuous wgt loss since 9/67

Weights
Initial 116
Intermediate 648
Final 440 3/14
T.I. E. Miller
Ref. MR 787

FOUND DEAD

Killed ———
Died 3-18-67 Method ———

Survival: d ___ h ___ m ___

P.M. Time ?
Change v. odor.

General Condition Thin, pale, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2		Thym./N.F.			
Br./Sp.C.		not saved		T./Ov.		3		Thyr./P.T.			
Ht./S.V.		1		Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		WNL		Pr./Ut.		WNL		Sal./Lac.			
L. N.		WNL		Bl./Ur.		WNL		N./M./F.			
Liver/G.B.		WNL		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - rigid.

2) Pale brown - surface granular.

3) Small & soft.

3-20-67
GSH
Pathologist Gm Zwicker
Date 3-20-67

Cause of Death:

HISTOPATHOLOGY

GSH
3/24/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003720

NECROPSY RECORD

Material Pb acetate Gp III .005% Pb Excipient ———

H. 41154
No. 69561
MR No. 787

Animal Rat Strain CHR CD Sex M Age 77d Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days { Test 737 / Recovery

Observations:

Weights
Initial 118
Intermediate 610
Final 900

T.I. E Wirle
Ref. NEP. 787

KILLED

Killed 4/27/67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition: Dumpable mass in anterior ventricle abdomen mildly obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.90	(1)		Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.	4.55			Thyr./P.T.			
Ht./B.V.	2.00			Epd./Fim.				Adren.	0.089		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019	(3)	
Lungs	2.15			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.15			Es./Stom.	3.60			Bo./B.M.			
Spleen	1.25			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) enlarged heavy coarse to section tan brown.
(2) male genital tract - focal absorption of the vas deferens
(3) two 1 mm circular cystic area in anterior pituitary

Cause of Death:

Pathologist GM Zweifel
Date 4/28/67

HISTOPATHOLOGY

GLS 5/10/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003721

NECROPSY RECORD

Material: Lead Acetate — Excipient:

H. 4154
No. 69575
MR No. 787

Animal: Rat — Strain: CBR-CD — Sex: F — Age: B.D. 3/17/65 — Diet: GPLC + 1% CO

Test: 2 yr. feeding Study — Phase: test — Dose: H # 4154 0.005% Pb Gr III — Days: Test 197, Recovery

Observations: None

Weights: Initial 109, Intermediate, Final 540

T.L. Clyde Tullis
Ref. NR-787

Killed 11-3
Died KILLED — Method: $CHCl_3$ — Survival: d h m — P.M. Time — Change

General Condition: N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No /
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90			Thym./N.F.	.50		
Br./Sp.C.	2.20			T./Ov.	3.61			Thyr./P.T.			
Ht./B.V.	1.49			Epd./Fim.				Adren.	0.060		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.012		
Lungs	1.80			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.60			Es./Stom.				Bo./B.M.			
Spleen	.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

(Brain + bone marrow missing - Trans 11-18-65 MAR)

Cause of Death:

Pathologist: Gen. Fuscher
Date: 11/3/65

HISTOPATHOLOGY

gfl
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003722

NECROPSY RECORD

Material Lead Acetate Excipient ~~~

H. 44154
No. 7495-83
MR No. 787

Animal Rat Strain CRL:CD Sex ♂ Age 404 days Diet GPLC+1% CO

Test 2yr. Feeding Phase Test Dose Gp III .005% Pb Days Test 371 Recovery

Observations: abcess in perineal area

Weights
Initial 118
Intermediate 642
Final 690
T.I. E. Mulay
Ref. Pb Acetate 2yr. study

KILLED

Killed 4-25-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.21			Thym./N.F.			
Br./Sp.C.	2.47			T./Ov.	3.78			Thyr./P.T.			
Ht./B.V.	1.98			Epd./Flm.				Adren.	.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.017		
Lungs	2.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.23			Es./Stom.	2.90			Bo./B.M.			
Spleen	1.28	(1)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Slightly large

4-25-66
O.A.B.
Pathologist J.M.Z.
MMR Date 4-25-66
4-25-66

Cause of Death:

HISTOPATHOLOGY

SAS 5/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003723

NECROPSY RECORD

Material: Lead Acetate 1% Excipient: —

H. 4154
No. 69587
MR No. 787

Animal: Rat Strain: CFN-CD Sex: ♂ Age: 465 days Diet: GPLC+1% CO

Test: 2yr. feeding Phase: Test Dose: .005% Pb 50 ppm Days: Test 438 Recovery:

Observations: continuous weight loss

Weights: Initial 110 Intermediate 722 Final 652

T.I. E. Wells

Ref. 2yr. Pb Study 110-787

FOUND DEAD

Killed: Died: F. dead 6/25 Method: Survival: d h m Change: 0 ado.

P.M. Time: ? General Condition: Blue-black cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ✓
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.		P.M. Change		T./Ov.		P.M. Change		Thyr./P.T.		P.M. Change	
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) All lobes abscessed.

(No tissue saved)

NO TISSUE SAVED

6-27-66
O.H.D. Pathologist: D.M. Zuricker
Date: 6-27-66

Cause of Death:

HISTOPATHOLOGY

D.F.
6/28/66

Pathologist: ___
Date: ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003724

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient

Animal Rat Strain CFE-CD Sex M Age 769 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 735 Recovery

H. 4454
No. 69591
MR No. 787

Observations: None visible

Weights
Initial 101
Intermediate 580
Final 730

T.I. E Miller
Ref. MR-787

Killed 4-25-67
Died KILLED Method CO2 Survival: d h m P.M. Time Change

General Condition obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.65			Thym./N.F.			
Br./Sp.C.	2.36			T./Ov.	4.20			Thyr./P.T.			
Ht./B.V.	1.90			Epd./Fim.				Adren.	0.075		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.50	0		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.45			Es./Stom.	2.50			Bo./B.M.			
Spleen	2.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Right anterior lobe is partially emphysematous, partially firm red brown.

4-25-67 mrc Pathologist Dm Zwicker

Cause of Death: CSF Date 4/25/67

HISTOPATHOLOGY

SCP 5 10 67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003725

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 4154
No. 69599
MR No. 787

Animal rat Strain Chk-CD Sex ♂ Age 125 days Diet GPLC + 1% CD

Test 2-yr. feeding Phase test Dose .005% (50ppm) 76 GP III Days Test 91 Recovery

Observations:

Weights
Initial 128
Intermediate
Final 494

T.I. Jr Carew
Ref. MR-787

Killed 7-22-65
Died KILLED Method $CHCl_3$ d h m

Survival: P.M. Time

Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			(Thym.)/N.F.	0.50		
(Br.)/Sp.C.	2.00			(T.)/Ov.	2.60			Thyr./P.T.			
(Ht.)/B.V.	1.33			Epd./Fim.				Adren.	0.052		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.012		
Lungs	1.49			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	15.81			Es./(Stom.)	1.90			Bo./B.M.			
Spleen	0.71			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist William C. Krause
MR 7-26-65 Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

EH 7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003726

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4454
No. 69604
MR No. 787

Animal Rat Strain CBR-CD Sex M Age 772 Days Diet 6PLC + 1% CD

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days Test 738 Recovery

Observations:
Continued wt loss from 2/20
4/08 ~~clears~~ on rt hind foot ¼" callous

Weights
Initial 130
Intermediate 798
Final 760
T.I. E Miller
Ref. MRD 787

Killed 4/28/67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition see above small muck pocket in axillary and perineal area.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.20	(2)		Thym./N.F.			
Br./Sp.C.	2.20	(1)		T./Ov.	2.30	(4)		Thyr./P.T.			
Ht./B.V.	2.18			Epd./Fim.				Adren.	0.091		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.305	(6)	
Lungs	2.85	(8)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.70	(5)		Es./Stom.	2.90	(3)		Bo./B.M.			
Spleen	1.40	(7)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) slightly large
(2) discolored pan tan - brown - coarse to lobular firm
(3) square mm small 1-2 mm areas of erosion
(4) testes small
(5) coarse to lobular slightly rounded margin several areas of grey discolor.
(6) pit enlarged 1 cm - .5 cm - .7 cm dark red-brown.
(7) compressed by pituitary mass
(8) multiple 2-3 mm circular white grey foci areas on all surfaces.

Cause of Death:

Pathologist Sam Zwickey
C.P. Date 4-28-67

HISTOPATHOLOGY

SPS 5.10.67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003727

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

Animal Rat Strain CR-CD Sex M Age 769 Days Diet GPLC+1%CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 735 Recovery

H. 41574
No. 69605
MR No. 787

Observations: Sporatic wgt loss

Weights
Initial 124
Intermediate 580
Final 738
T.I. Exhibit
Ref. MR-787

Killed 4-25-67
Died KILLED Method CO2 Survival: d h m P.M. Time Change

General Condition NAP

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.50			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.	4.10			Thyr./P.T.			
Ht./B.V.	1.85			Epd./Fim.				Adren.	0.077		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023	(2)	
Lungs	3.22	(4)		Pr./Ut.		4		Sal./Lac.		(3)	
L.N.		5		Bl./Ur.				N./M./F.			
Liver/G.B.	21.80			Es./Stom.	2.90			Bo./B.M.			
Spleen	1.95	(1)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(4) prostate enlarged

(5) right renal lymph node enlarged

(3) Orbital lacrimal gland - preneoplasia

(2) R anterior pituitary 2mm dark red circular enlargement

(1) Enlarged spleen. (1) several dark red, circular 2mm foci on capsular surface of liver

Pathologist [signature]
Date 6-7-425

Cause of Death:

HISTOPATHOLOGY

8 [illegible] 67
5

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003728

NECROPSY RECORD

Material Pb Acetate 6p TII .005% Pb Excipient —

H. 4454
No. 69613
MR No. 787

Animal Rat Strain CAR.CD Sex M Age 772 Days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 738 Recovery

Observations: Continued wgt loss since 2/14

Weights
Initial 115
Intermediate 712
Final 772

T.I. E Miller
Ref. JAP 789

Killed 4/26/67 Survival: P.M. Time General Obese
Died KILLED Method AA. Cl3 d h m Change Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.05			Thym./N.F.			
Br./Sp.C.	2.60			T./Ov.	460			Thyr./P.T.			
Ht./B.V.	2.39			Epd./Fim.				Adren.	0.090		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.028		
Lungs	2.25			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.60	0		Es./Stom.	4.42			Bo./B.M.			
Spleen	1.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

D several dark red irregular foci on surface of lobes of liver

4/28/67 MRC

Pathologist Jim Zwicker

Cause of Death: B.M.B. C.L.F. Date 4/28/67

HISTOPATHOLOGY

RLS 5/1 67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003729

NECROPSY RECORD

Material Pb Acetate 4% III Excipient ———

Animal Rat Strain CRL-CD Sex ♂ Age 627 Days Diet GPLC+1% Ca

Test 2yr. feeding Phase Test Dose .05% Pb 50 PPM Days Test 583 Recovery

H. 4454
No. 69614
MR No. 787

Observations: none

Weights
Initial 123
Intermediate 720
Final 11/22 1056
T.I. E Miller
Ref. MR-787

Found FOUND DEAD

Died F-dead 12/4/66 Method — Survival: d h m P.M. Time overnight? Change advanced

General Condition very obese cadaver; rigid

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			✓	Thym./N.F.			
Br./Sp.C.				Thy.			✓	Thyr./P.T.			
Ht./B.V.		Autol.		Epd./Tim.		Autol.	✓	Adren.		Autol.	✓
Tr./La./Br.				S.V./F.T.				Pit./Pin.			✓
Lungs	Autol.	✓		Pr./Ut.	Autol.			Sal./Lac.	Autol.		
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.		0	✓	Es./Stom.				Bo./B.M.			
Spleen			✓	Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

0 quite swollen + puffy, rounded margins
(tissue saved)

12-5-66
Pathologist MR William P. Krauss
Date 12-5-66

Cause of Death:

HISTOPATHOLOGY

RH
12/6/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003730

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

Animal Rat Strain Oak-CD Sex M Age 732 Days Diet GPL + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 698 Recovery ———

H. 4154
No. 69615
MR No. 787

Observations: Continuous wgt loss since 12/6/66

Weights
Initial 124
Intermediate 692
Final 518 3/4
T.I. E. Miller
Ref. NEP-789

FOUND DEAD

Killed ———
Died E-dead 3/21 Method ———

Survival: d ——— h ——— m ———

P.M. Time ?
Change v. adv.

General Condition Thin, pale, rigid cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2		Thym./N.F.			
Br./Sp.C.	not saved			T./Ov.				Thyr. (P.T.)		3	
Ht./B.V.		1		Epd./Fim.				Adren.			
Tr./La./Br.		P.M. Change		S.V./F.T.		P.M. Change		Pit./Pin.		P.M. Change	
Lungs				Pr./Ut.				Sal./Lac.			
L-N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta rigid-
2) Pale brown + black, surface ± granular. } All tissues autolyzed.
3) Pronounced

3-20-67
Pathologist GM Zwicker
Date 3-20-67

Cause of Death:

HISTOPATHOLOGY

PM
3/24/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003731

NECROPSY RECORD

Material: Lead Acetate Gr III Excipient: —

H. 41654
No. 69635
MR No. 787

Animal: Rat Strain: Ch CD. Sex: ♂ Age: Diet: GPLG 1% CO

Test: 2 yr. Feeding. Phase: Test Dose: .005% Pb 50 PPM Days: Test 468 / Recovery

Observations: Swollen foot caught in cage - unable to be removed. Continuous weight loss - foot appears to be decaying — (left hind leg)

Weights
Initial 114
Intermediate 770
Final 760 7-18-66
T.I. E. Nichs
Ref. MR-787

KILLED

Killed: Sac 8-2-66 Survival: P.M. Time:
Died: Method: CO_2 d h m Change:

General Condition: as above - perineal area smeared

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.65			Thym./N.F.	—		
Br./Sp.C.	2.29			T./Ov.	2.76			Thyr./P.T.			
Ht./B.V.	1.62			Epd./Fim.				Adren.	0.054		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	2.14	1		Pr./Ut.				Sal./Lac.			
L. N.				(Bl.)/Ur.		2		N./M./F.			
Liver/G.B.	9.95			Es./Stom.	1.93			(Bo)/B.M.		4	
Spleen	0.53			Du./Je./Il.				(Sk)/(App)		5	
Pancreas				Ce./(Co)/Re.		3		Ey/Ea/No/Mo			

1) Irregular congestion (CO_2 sacrifice)
2) Distended ? urine (neg)
3) Packed solid with fecal material
4) Fractured femur; left surrounding tissue appears to be calcified. (muscle)
5) Tissue of left hind limb appears to be gangrenous (skin)

8-2-66
C.S.H.
Pathologist: G.M. Zwicker
Date: 8-8-66

Cause of Death:

HISTOPATHOLOGY

Sarcoma of leg metastatic to heart; and cast. Mass in Vena

E.P.
9-3-66

Pathologist: E.P.
Date: 9.29.69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003732

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 41154
No. 69635
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet GPLC + 1% CO

Test 2 year feeding Phase test Dose Gavage . 005 % Pb Days { Test 371 / Recovery

Observations:

Weights
Initial 116
Intermediate 550
Final 588
T.I. E. Miles
Ref. Pb Acetate Lip Study

KILLED

Killed 4-25-66 Survival: P.M. Time —
Died — Method $CHCl_3$ d — h — m — Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.51			Thym./N.F.	—		
Br./Sp.C.	2.33			T./Ov.	3.50			Thyr./P.T.			
Ht./B.V.	1.5			Epd./Fim.				Adren.	.058		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.63			Pr./Ut.				Sal./Lac.			
L.N.	—			Bl./Ur.				N./M./F.			
Liver/G.B.	19.17			Es./Stom.	2.39			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-25-66
Pathologist JMZ
MAR Date 4-26-66
4-25-66

Cause of Death:

HISTOPATHOLOGY

CJL 4/27/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003733

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 4154
No. 69639
MR No. 787

Animal rat Strain Ch.R-CD Sex ♂ Age 125 days Diet GPLC+1% CO

Test 2-yr. feeding Phase test Dose .005% (50ppm) Pb GP III Days Test 91 Recovery

Observations:

Weights
Initial 109
Intermediate
Final 535

T.I. J. Carew
Ref. MR 787

Killed 7-20-65
Died KILLED Method CHCl3

Survival: d h m

P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			Thym./N.F.	0.89		
Br./Sp.C.	2.12			T./Ov.	3.87			Thyr./P.T.			
Ht./B.V.	1.53			Epd./Fim.				Adren.	0.062		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	1.84			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.28			Es./Stom.	2.00			Bo./B.M.			
Spleen	0.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist William C. Krauss
MR 7-20-65 Date 7-20-65

HISTOPATHOLOGY

9 18 12 6 5

Pathologist
Date

ER-B420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003734

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69650
MR No. 787

Animal Rat Strain CR.CD Sex M Age 769 Days Diet GPLC + 1% CO

Test Zinc feeding Phase test Dose .005% Pb 50 ppm Days { Test 735 / Recovery

Observations:

9/14/67 2" mass anterior to left hind leg
4/24 wart on back

Weights
Initial 113
Intermediate 588
Final 908
T.I. E Miller
Ref. MR 787

Killed 4.25.67
Died KILLED Method CHCl3

Survival: d h m

P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.30			Thym./N.F.			
Br./Sp.C.	2.45			T./Ov.	3.70			Thyr./P.T.			
Ht./B.V.	2.35			Epd./Fim.				Adren.	0.049		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.38	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.49			Es./Stom.	3.40			Bo./B.M.			
Spleen	1.60			Du./Je./Il.				Sk./App.	77.45	a (2)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. few red foci, scattered throughout all lobes ½ to 1½ mm diameter

2. a —— 6.5 × 5.0 × 3.5 cm. firm solid lobulated mass

b - Abscess.

4-25-67 GSH.

Pathologist J M Zwicker

Cause of Death: E.T.M. Date 4/25/67

HISTOPATHOLOGY

9 P B 67
5 10

Pathologist ———

Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003735

NECROPSY RECORD

Material Pb Acetate Gp III, .005% Pb Excipient ——

Animal Rat Strain CAR·CD Sex M Age —— Diet GPLC + 1% CO

Test 2 yr feeding Phase test Dose .005% Pb 50PPM Days Test 721 Recovery ——

H. 4154
No. 69665
MR No. 787

Observations:
Continuous wt loss from 2·28·67
4/11 Nervous twitch of head and extremities

Weights
Initial 118
Intermediate 688
Final 462
T.I. E. Miller
Ref. MR-787

Killed 4-11-67
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time —— Change ——

General Condition: more even stained dark red-brown; perineal region stained dark red-brown; animal very dehydrated with sticks next to muscle tissue

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.20	(3)		Thym./N.F.	—		
Br./Sp.C.	2.60	(2)		T./Ov.	2.25	(6)		Thyr./P.T.			
Ht./B.V.	2.12			Epd./Fim.				Adren.	0.107	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018	(1)	
Lungs	3.57	(5)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.50			Es./Stom.	3.05	(6)		Bo./B.M.			
Spleen	0.60			Du./Je./Il.		(7)		Sk./App./mes.	19.00	(8)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) dark red-brown

(2) left hemisphere of cerebrum appeared slightly swollen and darkish, right appeared normal

(3) right kidney was slightly larger (2.3 gm) than left (1.9 gm) also slightly granular on external surface.

(4) small

4-11-67
MAR GMZurcher
Pathologist
Date 4-11-67

Cause of Death:

HISTOPATHOLOGY

(5) a few pale greenish, 1mm to 2mm dia, flat foci on surface of left lobe, right posterior lobe; right middle lobe was firm, dissected red-brown, nodular; all other lobes were overinflated + emphysematous + dissected bright red.

(6) eg. mucosa thickened; a few 1mm dia. focal areas of erosion in gland. mucosa

(7) g.i. tract filled with gas + orange colored material (jejunitis enteritis).

(8) firm, subcutaneous mass on left side of rib-cage, 4cm × 2.5cm × 1cm high, white-pink tissue.

4/12/67

Pathologist ——
Date ——

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003736

NECROPSY RECORD

Material Pb Acetate Gp. III Excipient —

Animal Rat Strain CR·CD Sex M Age 673 Days Diet GPLC + 1% Co

Test 2yr feeding Phase Test Dose .005% Pb 50 ppm Days Test 639 Recovery

H. 4154 III
No. 69667
MR No. 787

Observations: Continued wgt loss since 11-22-66

Weights
Initial 103
Intermediate 760
Final 530 1/17/67
T.I. E. Miles
Ref. MD-787

FOUND DEAD

Killed
Died FD 1-19-67 Method
Survival: d h m
P.M. Time —
Change advanced

General Condition 5% f, dehydrated cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				(T.)Ov.		2		Thyr./P.T.			
(Ht.)/(L.V.)		1		Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.		3		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- heart had white areas of scar tissue; aorta was quite stiff

2- Very small, soft.

3- Glandular mucosa had several small black ulcerated areas

Pathologist G. M. Zwicker
Date 1-19-67

Cause of Death:

HISTOPATHOLOGY

8-11
1/20/67

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003737

OPSY ORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 41154
No. 69675
MR No. 787

Strain CRL:CD Sex M Age 752 Days Diet GPLC+1% CO

Test 78
Recovery

feeding Phase test Dose .005% Pb 50 PPM Days

Weights
Initial 118
Intermediate 840
Final 628 3/28
T.I. E Marks
Ref. MR-787

Continuous wgt loss 10/25/66
7/18/66 Swollen foot

D DEAD

-67 Method Survival: d h m P.M. Time ? Change Adm.

General Condition Thin, pale, dehydrated, rigid cadaver

THOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
			Kidney		2		Thym./N.F.			
	10 M. Change		T./Ov.		3		Thyr. (P.T.)		4	
	1		Epd./Fim.		P.M. Change		Adren.		P.M. Change	
			S.V./F.T.				Pit./Pin.			
			Pr./Ut.				Sal./Lac.			
			Bl./Ur.				N./M./F.			
			Es./Stom.				Bo./B.M.			
			Du./Je./Il.				Sk./App.			
			Ce./Co./Re.				Ey/Ea/No/Mo			

-patty, rigid.
mor, granular
i atrophy
ent
ver sacul.

Death: 4-10-67

Pathologist Jim Zwicker
Date 4-10-67

THOLOGY

4/11/67

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003738

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ———

H. 4154
No. 69676
MR No. 787

Animal Rat Strain CRL:CD Sex ♂ Age 614 Days Diet GDLC+1% CO

Test 2yr-feeding Phase test Dose .005% Pb 50 ppm Days { Test 580 / Recovery ———

Observations: pellar, mari band

Weights
Initial 88
Intermediate 548
Final 588
T.I. E. Mills
Ref. MR-787

Killed 11-21-66
Method CHCl3 d ___ h ___ m ___ Survival: P.M. Time ___ Change ___

General chromo around eyes, nose + mouth; Condition perineal region slightly stained yellow-brown

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.18	(2)		Thym./N.F.	0.60	(4)	
Br./Sp.C.	2.46			T./Ov.	3.71	(3)		Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.084	(5)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019	(6)	
Lungs	1.91			Pr./Ut.				Sal./Lac.		(7)	
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.07	(1)		Es./Stom.	2.41			Bo./B.M.			
Spleen	0.73			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		(8)	

(1) pale tan to dark red-brown mottling over all surfaces of liver

(2) very dark red-brown externally + internally

(3) both testicles discolored purplish

(4) partially atrophied

(5) both adrenals had pale, 1mm dia. speckling on surfaces

11-21-66 MARC
Pathologist William C. Krauss
Date 11-21-66

Cause of Death:

HISTOPATHOLOGY

(6) a 1mm dia. darkened focus located on right side, posterior-dorsal edge of pit

(7) lac. gland dark gray with light gray-tan, 1mm dia. foci on all surfaces

(8) left ear infection (yellowish-green purulent material in internal canal

SLF
11/23/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003739

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

III

H. 4154
No. 69678
MR No. 787

Animal Rat Strain CbR CD Sex M Age 706 Days Diet 6 PLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb Days Test 672 Recovery

Observations: 1/3/67 solid movable mass posterior to rt. forleg 1" diam. Continuous weight loss since 10/25/66
2/21 "razor-back" irregular respiration, face appears swollen, ptosis, extreme pallor, moribund
Sac. 2/21

Weights
Initial 104
Intermediate 645
Final (358)

T.I. E-Miles
Ref. MR 787

Killed 2-21-67 Survival: P.M. Time
Died KILLED Method CHCl3 d h m Change

General as above; chromo both eyes; perianal
Condition rigor; stained yellowish-brown

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.51	(4)		Thym./N.F.	—	(8)	
Br./Sp.C.	2.10	(1)		T./Ov.	1.55	(5)		Thyr./P.T.			
Ht./B.V.	1.55			Epd./Flm.				Adren.	0.075		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.299	(9)	
Lungs	2.86	(2)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.07	(3)		Es./Stom.	19.80	(6)		Bo./B.M.			
Spleen	0.80			Du./Je./Il.		(7)		Sk./App.		(10)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		(11)	

(1) ventral surface depressed upward

(2) overinflated + spongy, all lobes

(3) pale

(4) light brown, granular + small (both)

(5) small + soft (both)

2-21-67
MAR
Pathologist L M Zwicker
Date 2-21-67

Cause of Death:

HISTOPATHOLOGY

(6) firm, whitish mass along inner curvature of stomach, measuring 4cm x 3.5cm x 2.5cm approx.; seemed to originate from glandular mucosa; tissue somewhat resembled fat in appearance, cut easily with knife.

(7) g.i. tract empty of ingesta + feces; contained yellowish mucoid material

(8) atrophied

(9) firm, darkened to pale red-brown pituitary mass measuring 1.2cm x 0.8cm x 0.5cm

(10) movable mass just to right foreleg was firm pale yellow-brown, fatty consistency (lipoma?)

(11) ear infection (greenish thick fluid substance oozed out), right side

2/22/67
Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003740

NECROPSY RECORD

Material Lead Acetate Lot III .005% Pb Excipient ———

H. 4154
No. 69679
MR No. 787

Animal Rat Strain CAR-CD Sex ♂ Age 53 (93 on 11/01) Days Diet G-PLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 559 Recovery

Observations: none visible

Weights
Initial 110
Intermediate 785
Final 11/05 995
T.I. C. Miles
Ref. NLR-787

FOUND DEAD

Killed
Died F.D. (Advised 10-31-66) Method — Survival: d h m P.M. Time ? Change advanced

General done cadaver; flaccid + discolored
Condition + bloated

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.		adv P.M.		(T.)/Ov.		✓		Thyr./P.T.		adv P.M.	
Ht./B.V.			✓	Epd./Fim.				Adren.			✓
Tr./La./Br.				S.V./F.T.		adv P.M.		(Pit.)/Pin.			✓
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.			✓	Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

✓ tissues saved (all tissues labeled by advanced P.M. charge).

10-31-66
Pathologist William C. Krauss
Date 10-31-66

Cause of Death:

HISTOPATHOLOGY

11/1/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003741

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69705 765
MR No. 7870

Animal Rat Strain CR-CD Sex ♂ B.D. Age 404 days Diet GPLC + 1% CO

Test 2 yr. Study Phase Test Dose Grp III .005% Pb Days Test 371 Recovery

Observations:

Weights
Initial 106
Intermediate 632
Final 527
T.I. E. Miller
Ref. Pb Acetate 2 yr. Study

KILLED

Killed 4-25-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition mod

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.42			Thym./N.F.	—		
Br./Sp.C.	2.48			T./Ov.	3.71			Thyr./P.T.			
Ht./B.V.	1.82			Epd./Fim.				Adren.	.060		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.017		
Lungs	2.08	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.25			E./Stom.	2.90			Bo./B.M.			
Spleen	.85			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Few red foci - scattered throughout .5 mm in diameter

4-25-66 O.H.
Pathologist G.M.Z.
MR Date 4-25-66
4-25-66

Cause of Death:

HISTOPATHOLOGY

Eff 4/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003742

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ———

Animal Rat Strain CR-CD Sex M Age 678 Days Diet 6PLC + 1% CO

Test 2yr. feeding Phase Test Dose .005% Pb 50 PPM Days Test 644 Recovery

H. 4157 No. 69710 MR No. 787

III

Observations:

Continuous weight loss since 11-22-66

Weights: Initial 111 Intermediate 715 Final 435 1-17-67

T.I. E. Miles Ref. NR 787

FOUND DEAD

Killed ——— Died 1-24-67 Method ———

Survival: d ___ h ___ m ___

P.M. Time overnight Change mod-adv.

General Condition Thin, pale; dehydrated. Rigid cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2 ✓		Thym./N.F.			
Br./Sp.C.		P.M. change		T./Ov.		✓		(Thyr./P.T.)		P.M. change ✓	
Ht./B.V.		P.M. change ✓		(Epd)/Fim.		✓		Adren.		✓	
Tr./La./Br.		P.M. change		S.V./F.T.		P.M. change		Pit./Pin.		P.M. change	
Lungs		P.M. change		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.		P.M. change		N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./(B.M.)		✓	
Spleen		✓		Du./Je./Il.				(Sk.)/App.		3 ✓	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - stiff - several dark blue nodules along small intestine.

2) Pale, granular. Bilateral hydronephrosis.

3) Wart - like growth - left mandible 0.5 Cm. dia.

1-24-67
Pathologist William C. Krauss
Date 1-24-67

Cause of Death:

HISTOPATHOLOGY

PH
1/25/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003743

NECROPSY RECORD

Material Pb Acetate Grp III .005% Pb Excipient —

H. 41154
No. 69719
MR No. 789

Animal Rat Strain CR-CD Sex M Age 770 Days Diet 6PLC + 1% @0

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 736 Recovery

Observations:
Continuous wgt loss since 11-22-66

Weights
Initial 113
Intermediate 610
Final 392
T.I. EM Miller
Ref. MR 787

Killed 4-26-67
Died KILLED Method CNCl3 Survival: d h m P.M. Time Change

General Condition Thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes 1 No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.	3.30			Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	0.081		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	~~5.40~~	11.60		Es./Stom.	1.90	②		Bo./B.M.			
Spleen	0.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		①	

① Chromo around left eye thin.

② 3 mm grayish-white, raised mass on glandular mucosa

4-26-67 MAR
Pathologist EM Zwicker
Cause of Death: CIG Date 4-26-67

HISTOPATHOLOGY

5/10/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003744

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69724
MR No. 787

Animal Rat Strain CAR·CD Sex M Age 770 Days Diet 6PLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days {Test 736 / Recovery ———

Observations:

Continuous wgt loss from 12/20/66
1-17-67 Solid mass 1" posterior to rt foreleg
4-18-67 Mass grown to 3" with necrotic surface

Weights
Initial 113
Intermediate 612
Final 755
T.I. EX Miller
Ref. MR·787

Killed 4-26-67 Survival: P.M. Time ———
Died KILLED Method CHCl3 d h m Change ———
General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No ———
Tissue Saved: Yes ——— No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	8.00	(1)		Thym./N.F.			
Br./Sp.C.	2.28			T./Ov.	3.39			Thyr./P.T.			
Ht./B.V.	2.39			Epd./Fim.				Adren.	0.101		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024		
Lungs	2.33			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	28.50			Es./Stom.	2.70			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.	268.8	(2)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale brown and granular - Large

(2) 8 cm diameter firm, pale red and white mass - medalle right side

Cause of Death: (partly necrotic) 4-26-67 Pathologist EM Zwicker
O.K. e.m. Date 4-26-67

HISTOPATHOLOGY

5/10/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003745

NECROPSY RECORD

Material Pb Acetate Op III Excipient —

Animal Rat Strain CHR-CD Sex M Age 670 Days Diet GPLC+1% CO

Test 2yr-packing Study Phase Test Dose .005% Pb 50 PPM Days

H. 4454
No. 697 25
MR No. 787
Test 636
Recovery

Observations:
Continuous weight loss from 10/20/66
1/16 moribund - extremely pale

Weights
Initial 112
Intermediate 630
Final 820
T.I. E. Mills
Ref. MR-787

KILLED

Killed 1-16-67
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition Pale, moribund.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.25	3		Thym./N.F.	—		
Br./Sp.C.	2.19			T./Ov.	2.60			Thyr./P.T.			
Ht./B.V.	1.89			Epd./Fim.				Adren.	0.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	1.61			Pr./Ut.				Sal./Lac.			
L N.				Bl./Ur.	—	2		N./M./F.			
Liver/G.B.	18.25	1		Es./Stom.	2.75			Bo./B.M.			
Spleen	0.71			Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) M. pale.

2) Distended with dark brown urine. Mucosa thickened.

3) M. pale & granular).

1-16-67
CSH
Pathologist Gm Zwicker
Date 1-16-67

Cause of Death:

HISTOPATHOLOGY

GM
1/20/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003746

NECROPSY RECORD

Material Pb Acetate, Lp III .005% Pb Excipient ———

Animal Rat Strain CRL-CD Sex ♂ Age 574 Days Diet GR-C + 1% CO

Test 2 yr feeding Phase Test Dose .005% Pb Days

H. 4154
No. 69726
MR No. 787
Test 540
Recovery

Observations: Continuous wt loss from 9/27

Weights
Initial 100
Intermediate 705
Final 1036 10/11/66
T.I. E. Miller
Ref. MR-787

Found dead @ 2:15 PM Lone at 7:30 PM

Killed ———
Died 10-13-66 Method ———

Survival: d h m

P.M. Time ?
Change mod.

General Condition Adult caucasian. Chronic

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.				T./Ov.		✓		Thyr./P.T.		✓	
Ht./B.V.		✓		Epd./Fim.		✓		Adren.		✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.		✓	
Lungs		1 ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		2 ✓		Es./Stom.				Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Irregular congestion.

2) Mottled red brown – cranium cut section

(✓) Tissues saved.

10-13-66 CSH Pathologist J. M. Zwicker

Cause of Death:

Date 10-13-66

HISTOPATHOLOGY

JMZ 10/14/66

Pathologist ———

Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003747

NECROPSY RECORD

Material: Lead Acetate Exp III Excipient:

H. 454
No. 69737
MR No. 787

Animal: Rat Strain: Chl-CD Sex: ♂ Age: 5 1/2 Days Diet: Lab L.C. + 1% CO

Test: Exp. feeding Phase: Test Dose: .05% Pb 50 PPM Days: Test 538, Recovery

Observations: 3/15/66 solid moveable mass ½ dia. at perineal area
10/10/66 Continuous weight loss

Weights
Initial 88
Intermediate 718
Final 200 7/22/66
T.I. E. Miles
Ref. MR-787

FOUND DEAD

Killed
Died 10-10-66 Method Survival: d h m P.M. Time Overnight + Change 2. ado.

General Condition: Blue cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.				T./Ov.		✓		Thyr./P.T.			
Ht./B.V.		Path Change ✓		Epd./Fim.		Path Change		Adren.		Path Change ✓	
Tr./La./Br.		Path Change		S.V./F.T.		Path Change		Pit./Pin.		Path Change ✓	
Lungs		Path Change ✓		Pr./Ut.		Path Change		Sal./Lac.		Path Change	
L. N.		Path Change		Bl./Ur.		Path Change		N./M./F.		Path Change	
Liver/G.B.		Path Change ✓		Es./Stom.		Path Change		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Vascular mass 0.5 Cm. dia.

10-10-66
Pathologist G M Zwicker
Date 10-10-66

Cause of Death:

HISTOPATHOLOGY

PH
10/12/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003748

NECROPSY RECORD

Material Lead Acetate Excipient —

I Rat Strain CBL-CD Sex ♂ Age 404 days Diet 6PLC+1% CO

2yr study Phase test Dose Mfg III .005% Pb Days

H. 4137
No. 69748'
MR No. 787
Test 371
Recovery

Weights
Initial 116
Intermediate 670
Final ~~399~~ 732
T.I. E. Miller
Ref. Pb Acetate 2yr study

servations:

LED

d 4-25-66 Survival: P.M. Time

Method CHCl3 d h m Change

General Condition abnormal-right eye

OSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
or./Abd.				Kidney	3.12			(Thym./N.F.)	—		
/Sp.C.	2.21			(T./Ov.)	1.00	(1)		Thyr./P.T.			
/B.V.	1.67			Epd./Fim.				Adren.	.074		
/La./Br.				S.V./F.T.				(Pit./Pin.)	.016		
ngs	1.68			(Pr./Ut.)		(2)		Sal./Lac.			
N.				Bl./Ur.				N./M./F.			
iver/G.B.	16.30			Es./Stom.	2.50			Bo./B.M.			
pleen	1.15	(3)		Du./Je./Il.				Sk./App.			
ancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

testicles quite small, usual shape + color

prostate enlarged, bilateral

small roun circular fluid filled cyst on margin of spleen

kidneys, heart, bone marrow missing = 5-16-66 trim MAR

Cause of Death:

Pathologist GM Zuckerman
MAR Date 4-25-66
4-25-66

HISTOPATHOLOGY

PH 4/27/66

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003749

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

Animal Rat Strain CBR-CD Sex ♂ Age 550 Days Diet GPLC + 1% CO

H. 4154
No. 69756'
MR No. 787

Test 24p feeding Phase test Dose .005% Pb 50 ppm Days Test 546 Recovery

Observations: none

Weights
Initial 99
Intermediate 648
Final 710
T.I. E. Miles
Ref. NAR-787

Killed 10-18-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.65			(Thym.)/N.F.	—		
(Bd.)/Sp.C.	2.30			(T.)Dv.	4.40			Thyr./P.T.			
(Ht.)/B.V.	1.95			Epd./Fim.				Adren.	0.094		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.014		
Lungs	2.25			Pr./Ut.				Sal./Lac.			
L. N.	—			(Bl.)/Ur.		①		N./M./F.			
(Liver)/G.B.	23.62			Es./(Stom.)	2.82			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① bladder distended with whitish-tan granular, gritty material; wall flushed

Cause of Death:

Pathologist William C. Ramsey
MAR 10-18-66 Date 10-18-66

HISTOPATHOLOGY

WNL
10/19/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003750

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69760
MR No. 787

Animal Rat Strain CHR-CD Sex ♂ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose H # 4154 0.005 % Pb Days Test 197 Recovery

Observations: none

Weights
Initial 130
Intermediate
Final 639

T.I. Elizabeth Miller
Ref. MR-787

Killed 11-3
KILLED Method CHCl3 Survival: d h m P.M. Time Change General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.17			(Thym.)/N.F.	0.60		
(Br.)/Sp.C.	2.05			(T.)/Ov.	3.65			Thyr./P.T.			
(Ht.)/B.V.	1.50			Epd./Fim.				Adren.	.061		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.015		
Lungs	1.84			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	15.77			Es./Stom.				Bo./B.M.			
Spleen	1.21			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

(Eye missing - trim 11-18-65 MAR)

Cause of Death:

Pathologist G.M. Zuercher
MAR 11-7-65 Date 11-8-65

HISTOPATHOLOGY

G-H
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003751

NECROPSY RECORD

Material Control for H#4154 Gp I A Excipient —

H. 4154
No. 70070
MR No. 787

Animal Rat Strain CHR·CD Sex F Age 475 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Control Gp I A Days Test 741 Recovery —

Observations:
1·31 Solid moveable mass 1" left hip
mass at perineal area 1½"

Weights
Initial 96
Intermediate 345
Final 798
T.I. E. White
Ref. HLD·787

Killed 5/1/67
Died KILLED Method CHCl3

Survival: d — h — m —

P.M. Time —

Change —

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.079	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.034	③	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.38	①		Es./Stom.	2.42			Bo./B.M.			
Spleen	1.09			Du./Je./Il.				Sk./App.	~~0.3685~~ 0.12.35	④	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Lobular markings prominent, edges rounded

② Mottled dark red brown

③ Hypertrophic

④ Diffuse mammary type mass right inguinal area - 7X5X2cm

⑤ Firm, pale brown, round mass anterior to left hind leg 2.5cm Diameter

5-1-67 GS

Pathologist Geo Jurkus

Date 5/10/67

Cause of Death:

HISTOPATHOLOGY

5/12/67

Pathologist —

Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003752

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

H. 415F
No. 86636 Rpt
MR No. 787

Animal Rat Strain CRL Sex ♀ Age 21 Days Diet GPLC + 1% Ca

Test 2yr. feeding Phase Reprod - F3B 2yr Dose .001% Pb Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 53

T.I. E. Miles
Ref. MR-787 Report

KILLED

Killed 12-21-66
Died Method CHCl3 Survival: d h m
P.M. Time
Change
General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.60			Thym./N.F.			
Br./Sp.C.				T./Ov.	—			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.20			Es./Stom.				Bo./B.M.			
Spleen	0.21			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-21-66
Pathologist William P. Krauss
Date 12-21-66

Cause of Death:

HISTOPATHOLOGY

SH
12/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003753

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

H. 4154
No. 80037 R3
MR No. 787

Animal Rat Strain CBR-CD Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction (F3B Generation) Dose .001% Pb 10 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 64
T.L. E. Mills
Ref. MR-787 Reprod.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.70			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.83			Es./Stom.				Bo./B.M.			
Spleen	0.25			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
MR
Pathologist D. Zwicker
Date 12/6-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003754

NECROPSY RECORD

Material Pb Acetate Lot II Excipient —

H. 4454
No. 80037 R4
MR No. 787

Animal Rat Strain CR-CD Sex F Age 21 Days Diet GPLC+1% Ca

Test 2 yr. feeding Phase Reproduction F3B Dose .001% Pb 10 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 61
T.I. E. Miller
Ref. MR 787 Rpwd.

KILLED

Killed 12-16-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.71			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.65			Es./Stom.				Bo./B.M.			
Spleen	0.33			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
MAE
Pathologist L Zucker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 • WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003755

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

H. 4154
No. 80039 R3
MR No. 787

Animal Rat Strain CRL Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .001% Pb 10 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 64
T.I. E. Miles
Ref. MR-787 Rpted

Killed 12-19-66
KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change General Condition NAD

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,80			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,10			Es./Stom.				Bo./B.M.			
Spleen	0,32			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krouse
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003756

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

H. 4154
No. 80039 R4
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet 6 PLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3b generation Dose .001% Pb 10 PPM Days { Test / Recovery

Observations:

Weights
Initial
Intermediate
Final 65
T.I. E. Miller
Ref. MR-R7 Reprod.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,82			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.48			Es./Stom.				Bo./B.M.			
Spleen	0,31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003757

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ———

H. 4154
No. 80029 R
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction (F3B generation) Dose .001% Pb 10 PPM Days Test 21 Recovery ———

Observations:

Weights
Initial ———
Intermediate ———
Final 64
T.I. E Miles
Ref. MR-787 Approved.

KILLED

Killed 12-14-66
Died ——— Method ——— Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.82	(1)		Thym./N.F.			
Br./Sp.C.				T./Ov.	0.29			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.31			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) hydronephrosis - right

Pathologist JMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003758

NECROPSY RECORD

Material Pb Acetate Exp II Excipient ———

Animal Rat Strain CR·CD Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose .001% Pb 10PPM Days Test 21 Recovery

H. 41154
No. 86029 R2
MR No. 787

Observations:

KILLED.

Weights
Initial
Intermediate
Final 70
T.I. E. Miles
Ref. MR-787 Repeat

Killed 12-14-66 Survival: P.M. Time
Died Method d h m Change
General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	.80			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.81			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist GMZ
Date 12-14-66

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003759

NECROPSY RECORD

Material Pb Acetate Control (Gp II) Excipient ———

H. 4154
No. 84035 R1
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 yr feeding Phase Reproduction (F3B generation) Dose .001% Pb 10 PPM Days Test 21 Recovery ———

Observations: ———

Weights
Initial ———
Intermediate ———
Final 56
T.I. E Miller
Ref. MR 787 Repeat.

KILLED

Killed 12-14-66 Survival: P.M. Time ——— General Condition NAD
Died ——— Method CO2 d ——— h ——— m ——— Change ———

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.66			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.25			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.11			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
CLL
Pathologist DMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003760

NECROPSY RECORD

Material Pb Acetate Hp II Excipient ~~~~

H. 4154
No. 80035 R2
MR No. 787

Animal Rat Strain CRL Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .001% Pb 10 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 57
T.I. E Hills
Ref. MR-787 Reported.

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.65			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.10			Es./Stom.				Bo./B.M.			
Spleen	0.24			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003761

NECROPSY RECORD

Material Pb Acetate Lot II Excipient —

H. 41154
No. 80036 R
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet CPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .01% Pb 10 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 63
T.I. E. Miles
Ref. MR-787 Rpt.

KILLED

Killed 12-21-66
Died Method CO2 Survival: d h m P.M. Time General Condition WD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.58	1		Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.31			Es./Stom.				Bo./B.M.			
Spleen	0.23			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) M. Hyaline droplet, right.

12-21-66
C.A.V.
Pathologist William C. Krauss
Date 12-21-66

Cause of Death:

HISTOPATHOLOGY

RJ
12/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003762

NECROPSY RECORD

Material Pb Acetate Lot F Excipient —

H. 4154
No. 20036 R2
MR No. 787

Animal Rat Strain CbR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .001% Pb 10 PPM Days Test 21 / Recovery —

Observations:

KILLED

Weights
Initial —
Intermediate —
Final 60
T.I. E. Miles
Ref. MR-787-Reprod.

Killed 12-21-66
Died — Method CH2Cl3 Survival: d — h — m — P.M. Time — Change —

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.61			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.20			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.45			Es./Stom.				Bo./B.M.			
Spleen	0.27			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-21-66
Pathologist William C. Krause
Date 12-21-66

Cause of Death:

HISTOPATHOLOGY

GLP
12/27/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003763

NECROPSY RECORD

Material Pb acetate Exp II Excipient ~~~~

H. 41154
No. 80037 R,
MR No. 787

Animal Rat Strain CBR-CD Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 gen. feeding Phase Reproduction F2B generation Dose ~~Control~~ 6.M. 10/5 .001% Pb Days { Test 21 / Recovery

Weights
Initial
Intermediate
Final 63
T.I. E Miles
Ref. MR-787 Reported

Observations:

KILLED

Killed 12-16-66
Died Method CHL3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.71			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.27			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.77			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

12-16-66
CHL
Pathologist L Zwicker
Date 12/16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003764

NECROPSY RECORD

Material Pb Acetate Hp II Excipient —

H. 4154
No. 80037 R2
MR No. 787

Animal Rat Strain CRL-CD Sex ♂ Age 21 Days Diet 6PLC + 1% CO

Test 2yr. Feeding Phase Reproduction F3B generation Dose .001% Pb 10 PPM Days Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 63
T.I. G. Miles
Ref. MR. 787 Repeated

KILLED

Killed 12-16-66
Died Method CO2 Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.67			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.30			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.81			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-16-66
Pathologist G. Zwicker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003765

NECROPSY RECORD

Material Pb Acetate Grp II Excipient —

H. 4454
No. 80039 R
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B Generation Dose .001% Pb 10 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 59
T.I. E. Miller
Ref. MP-787 Report.

Killed 12-19-66 KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N&D.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.70			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.32			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.74			Es./Stom.				Bo./B.M.			
Spleen	0.32			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N&D.

12-19-66
Pathologist William C. Krause
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003766

NECROPSY RECORD

Material Pb Acetate Gp I Excipient —

H. 4154
No. 80039 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% Ca

Test 2yr. feeding Phase Reproductive Dose .001% Pb 10 PPM Days { Test 21 / Recovery

F0 generation

Observations:

Weights
Initial
Intermediate
Final CH
T.I. E. Miles
Ref. MP. 787 Reprod.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.77			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.29			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.20			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

12-19-66
C.H.
Pathologist William C. Krotzer
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003767

NECROPSY RECORD

Material: Lead Acetate — Excipient: —

Animal: Rat — Strain: CRL-CD — Sex: ♀ — Age: 22 days — Diet: .005% Pb GPLC

Test: Reproduction — Phase: F2B generation — Dose: .005% Pb — Days: Test 0, Recovery —

Observations: eyes opaque - animal appears to be blind

Gross only

KILLED

Killed: 6-1-66 — Survival: — P.M. Time: —

Died: — Method: $CHCl_3$ — d — h — m — Change: —

General Condition: as above

(R)
H. 4634
No. Miller's # 74723 April 67
MR No. 287

Weights: Initial 54; Intermediate —; Final —

T.I. E. Miller

Ref. MR-787 Reproduction

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes — No ✓
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				(Ey)/Ea/No/Mo		1	

1) Bilateral corneal opacity - examination of chambers - showed no lens development - White precipitate only.

(No tissues saved)

NO TISSUE SAVED

6-1-66
O.S.B.
Pathologist William C. Krause
Date 6-1-66

Cause of Death:

HISTOPATHOLOGY

6/3/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003768

NECROPSY RECORD

Material Lead acetate Excipient

H. 4154 (Reprod.)
No. 74726 (FtB)
MR No. 787

Animal Rat Strain CRL-CD Sex ♀ B.D. Age 10/14/65 Diet GPLC + 1% CO

Test 2yr. feeding Phase Test Dose .005% Pb Days Test 172 Recovery

Observations:
Died shortly after giving birth to 12 pups.

Weights
Initial 94
Intermediate 292
Final 399
T.I. E. Kuhl
Ref. Pb acetate Reproduction Study

Killed FOUND DEAD Survival: P.M. Time
Died F. dead 5/4/66 Method — d h m Change

General Condition rigid cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			✓	Thym./N.F.			
(Br.)/Sp.C.		✓		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr.(Ut.)		(1)	✓	Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.		✓		Es./(Stom.)		(2)		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) a 1.5cm long rupture in wall of left uterine horn

(2) mucosa of stomach ruptured (1cm long) at junction gas; stomach greatly distended with ingesta and bedding material plus blood (hemorrhage).

5-4-66
MR
Pathologist William C. Krause
Date 5-4-66

Cause of Death:

HISTOPATHOLOGY

RH
5/5/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003769

NECROPSY RECORD

Material Gp III Pb Acetate Excipient ~~~~

H. 4154
No. 80060 R1
MR No. 187

Animal Rat Strain CR Sex ♂ Age 21 Days Diet 6PLC + 1% CO

Test 2yr. feeding Phase Reproduction F_{3B} generation Dose .005 % Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 63
T.I. E. Miller
Ref. MR-187 Reprod.

KILLED

Killed 12-14-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.65			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.28			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-14-66
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003770

NECROPSY RECORD

Material Cp III Pb Acetate Excipient —

H. 4454
No. 80060 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose .005% Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 56
T.I. E Miles
Ref. MR-787 Repeat.

KILLED

Killed 12-14-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,67			Thym./N.F.			
Br./Sp.C.				T./Ov.	0,20			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2,55			Es./Stom.				Bo./B.M.			
Spleen	0,30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
GM.
Pathologist JMZ
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003771

NECROPSY RECORD

Material Cap III Pb Acetate Excipient ~~~

H. 4154
No. 80062 R1
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose .005% Pb 50 PPM Days { Test 21 Days / Recovery

Observations:

KILLED

Weights
Initial
Intermediate
Final 56
T.I. Fe. Mills
Ref. MR-787 Reprod.

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.60			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.32			Es./Stom.				Bo./B.M.			
Spleen	0.25			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-14-66
Pathologist GHZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003772

NECROPSY RECORD

Material Pb Acetate Grp III Excipient ———

H. 4154
No. 80062 R2
MR No. 787

Animal Rat Strain Chl:CD Sex ♂ Age 21 Days Diet 6PLC+10% CO

Test 2yr - Breeding Phase Reproduction F3b generation Dose .005% Pb 500PPM Days Test 21 Recovery ———

Observations: ———

Weights
Initial ———
Intermediate ———
Final 54
T.I. E. Miles
Ref. MR-787 Revised

KILLED

Killed 12-14-66
Died ——— Method CHCl3 Survival: d ——— h ——— m ——— P.M. Time ——— Change ———

General Condition NED

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.7			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.25			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.3			Es./Stom.				Bo./B.M.			
Spleen	0.2			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
Pathologist [signature]
Date 12-14-66

Cause of Death: ———

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003773

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ~~~~

H. 4154
No. 80063 R1
MR No. 787

Animal Rat Strain CAR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .005% Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 73
T.I. E. Miles
Ref. MR-787 Reprod.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,80			Thym./N.F.			
Br./Sp.C.				T./Ov.	0,30			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,19			Es./Stom.				Bo./B.M.			
Spleen	0,29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-16-66
Pathologist E Zurcher
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003774

NECROPSY RECORD

Material Pb Acetate Exp III Excipient ~~~

H. 41546
No. 80063 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 gen. feeding Phase Reproduction F3B generation Dose .005% Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 64
T.I. E. Miles
Ref. MR-787 Rpod.

KILLED

Killed 12-6-66
Died Method CO2
Survival: d h m
P.M. Time
Change
General Condition nad

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.26			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.29			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.85			Es./Stom.				Bo./B.M.			
Spleen	0.32			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

12-6-66
CH
Pathologist L. Zwicker
Date 12-6-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003775

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 41154
No. 80064 R1
MR No. 787

Animal Rat Strain CAR Sex ♂ Age 21 Days Diet GPLC + 1% Ca

Test Feeding (2yr) Phase Reproduction Dose .005% Pb 50 ppm Days Test 21 Recovery

For generation

Observations:

Weights
Initial
Intermediate
Final 70
T.I. E. Miller
Ref. MR-787 Repeat.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,81			Thym./N.F.			
Br./Sp.C.				T./Ov.	0,30			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,24			Es./Stom.				Bo./B.M.			
Spleen	0,29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66 GSB. William C. Krause
Pathologist
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003776

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4164
No. 80064 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .005% Pb 50PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 73
T.I. E. Miller
Ref. MR-787 Repeat

Killed 12-19-66 Survival: P.M. Time
Died KILLED Method CHCl3 d h m Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,84			Thym./N.F.			
Br./Sp.C.				T./Ov.	0,30			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,19			Es./Stom.				Bo./B.M.			
Spleen	0,28			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
Pathologist William C. Krause
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003777

NECROPSY RECORD

Material Pb acetate Gp III Excipient ——

H. 41574
No. 840073 R1
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2yr feeding Phase Reproduction (F3B Generation) Dose .005% Pb 50 APM Days { Test 21 / Recovery ——

Observations:

Weights
Initial ——
Intermediate ——
Final 66
T.I. E Miles
Ref. MR 784 Report

Killed 12-19-66
Died KILLED Method $CHCl_3$ Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,80			Thym./N.F.			
Br./Sp.C.				T./Ov.	0,30			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,00			Es./Stom.				Bo./B.M.			
Spleen	0,34			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
C.S.K.
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ———

H. 4454
No. 80073 R2
MR No. 787

Animal Rat Strain CRL Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2yr feeding Phase Reproduction (F3 generation) Dose .005% Pb 50 PPM Days: Test 21, Recovery ———

Observations: ———

Weights: Initial ——— Intermediate ——— Final 59

T.I. E. Miller
Ref. MR 787 Rpt'd.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.70			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.29			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.53			Es./Stom.				Bo./B.M.			
Spleen	0.34			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
Pathologist William C. Krauss
Date 12-19-66

Cause of Death: ———

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003779

NECROPSY RECORD

Material Gp III Pb Acetate Excipient —

Animal Rat Strain CRL Sex F Age 21 Days Diet GPLC + 1% CO

H. 4154
No. 80060 R3
MR No. 787

Test 2yr. feeding Phase Reproduction Dose .005% Pb 50 PPM Days Test 21 Recovery

F3B Generation

Observations:

Weights
Initial
Intermediate
Final 63
T.I. G Hicks
Ref. MR. 787 Repeat

KILLED

Killed 12-14-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.73	0		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.20			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

0 hydronephrosis, left, mild.

12-14-66
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003780

NECROPSY RECORD

Material Gp III Pb Acetate Excipient —

H. 4154
No. B 0060 Rep
MR No. 787

Animal Rat Strain CHR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test Rep. Feeding Phase Reproduction F3B generation Dose .005% Pb 50 PPM Days Test 21 Recovery

Weights
Initial
Intermediate
Final 58
T.I. E Miller
Ref. MR-787 Repeat

Observations:

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.68			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.40			Es./Stom.				Bo./B.M.			
Spleen	0.24			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
Pathologist DMR Gmz
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003781

NECROPSY RECORD

Material Gp III Pb Acetate Excipient —

H. 4454
No. 80062 R3
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B Generation Dose .005% Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 55

T.I. C Miller
Ref. MR-787 Report

KILLED

Killed 12-14-66
Died Method $CHCl_3$ Survival: d h m Change P.M. Time

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.68			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.23			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
Date

Pathologist GMZ

Cause of Death:

Pathologist
Date 12-14-66

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003782

NECROPSY RECORD

Material Cp III Pb Acetate Excipient ———

H. 4454
No. 80062 Rep
MR No. 787

Animal Rat Strain CRL Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction Dose .005% Pb 50PPM Days { Test 21 / Recovery

F3B generation

Observations:

Weights
Initial
Intermediate
Final 50

T.I. E. Miller
Ref. MR-787 Reported.

KILLED

Killed 12-14-66
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.51			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	1.95			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
MAR
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003783

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4154
No. 80063 R3
MR No. 787

Animal Rat Strain CHR Sex ♀ Age 21 Days Diet 6PLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .005% Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 60
T.I. E. Miles
Ref. MR 787 Rpted.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.78			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.68			Es./Stom.				Bo./B.M.			
Spleen	0.31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
MAR
Pathologist D Zuckerman
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003784

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4154
No. 80064 R3
MR No. 787

Animal Rat Strain CbR Sex ♀ Age 21 Days Diet GPLO+1% CO

Test Feeding (2yr) Phase Reproduction (F3a Generation) Dose .005% Pb 50 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 70
T.I. E. McCabe
Ref. MP-782 Repeated

Killed 12-19-66 Survival: P.M. Time General Condition NAD
Method CHCl3 d h m Change

KILLED

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.85			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.28			Es./Stom.				Bo./B.M.			
Spleen	0.37			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krause
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003785

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

Animal Rat Strain CRL Sex ♀ Age 21 Days Diet GPLC + 1% Ca

Test 2 gen. feeding Phase Reproduction F3B generation Dose .005% Pb 50 ppm Days Test 21 Recovery

H. 41154
No. 80064 R4
MR No. 787

Observations:

Weights
Initial
Intermediate
Final 69
T.I. C. Miller
Ref. MR 787 Reprod.

Killed 12-19-66
KILLED Method CHCl3 d h m Change

Survival: P.M. Time

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.85			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Flm.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.75			Es./Stom.				Bo./B.M.			
Spleen	0.31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krause
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003786

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ———

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction F3B Generation Dose .005% Pb 50 ppm Days

H. 4154
No. 80073 R3
MR No. 781

Test 21
Recovery

Observations:

Weights
Initial
Intermediate
Final 57
T.I. E. Miller
Ref. MR 781 Report.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.75			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.45			Es./Stom.				Bo:/B.M.			
Spleen	0.26			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003787

NECROPSY RECORD

Material Pb Acetate Lot III Excipient —

Animal Rat Strain CR Sex F Age 21 Days Diet 6PLC+1% CO

Test 2yr. feeding Phase Reproduction Dose .005% Pb 50 ppm Days Test 21 Recovery

F3B generation

Observations:

H. 4454
No. 80073 Rf
MR No.

Weights
Initial
Intermediate
Final 61
T.I. Ex. Mike
Ref. MRBP Reprod.

Killed 12-19-66 Method CHCl3 d h m Survival: P.M. Time Change

KILLED

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.80			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.66			Es./Stom.				Bo./B.M.			
Spleen	0.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003788

NECROPSY RECORD

Material: Lead Acetate Excipient:

H. 4154
No. 74762 F1B
MR No. 787

Animal: Rat Strain: CRL-CD Sex: ♀ Age: B.D. 10-14-65 Diet: GPLC + 1% C.O.

Test: Reproduction Study F1B Phase: Test Dose: .01% (100 PPM) Pb Days: Test 105, Recovery

Weights: Initial 100, Intermediate 261, Final 328

T.I. Phz. Mellis

Ref. Lead Acetate Reprod. Study

Observations: none

Last breeding date - 2-22-66

Presume animal to be pregnant

FOUND DEAD

Killed / Died F.D. 2/25/66 Method: Survival: d h m P.M. Time: ? Change: Advanced General Condition: Blue & Emaciated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1.		Pr./(Ut.)		2.		Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. dark red and hyperinflated

all visceral organs had moderate to advanced Post Mortem Change.

2. Contained 16 pups - viviparous embryos - maternal placenta appeared to be effected with liquifaction of buttons. Entire uterus filled with a dark red slimey purulent material. Pups were very small.

Cause of Death: Purulent material from vagina.

Pathologist: William C. Krause
Date: 2-25-66

HISTOPATHOLOGY

Slide for A o mede.

EH
7-28-66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003789

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient ——

H. 41154
No. 80092 R1
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 3 gen. feeding Phase Reproduction F3B generation Dose .01% Pb 100 ppm Days (Test 21 / Recovery)

Observations:

Weights
Initial
Intermediate
Final 59
T.I. 6 Mice
Ref. MR-787 Piped.

KILLED GMZ

Killed 12-13-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.7			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.3			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.2			Es./Stom.				Bo./B.M.			
Spleen	0.3			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist G Zuercher
Date 12-14-66

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003790

NECROPSY RECORD

Material Pb Acetate Grp IV Excipient —

H. 4154
No. 80092 R2
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction F3B Generation Dose .01% Pb 100 PPM Days { Test / Recovery

Observations:

Weights
Initial
Intermediate
Final 64
T.I. E Mills
Ref. MR-787 Repeat

KILLED

Killed 12-14-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.7			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.35			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N:/M./F.			
Liver/G.B.	7.3			Es./Stom.				Bo./B.M.			
Spleen	0.3			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Pathologist G Zurickas
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003791

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient —

H. 4154
No. 80094 R4
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2 yr feeding Phase Reproduction Dose .01% Pb 100 PPM Days Test 21 Recovery

F3B generation

Observations:

KILLED

Weights
Initial
Intermediate
Final 60
T.I. E. Miller
Ref. MR 787 Reprod.

Killed 12-20-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.67			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.28			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.46			Es./Stom.				Bo./B.M.			
Spleen	0.36			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

12-20-66
O.S.B. William C. Krause
Pathologist
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

12/22/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003792

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient ~~~

H. 4154
No. 80094 R_2
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet 6%LC + 1% CO

Test Dyn. feeding Phase Reproduction F_{2B} generation Dose .01% Pb 100 ppm Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 64
T.I. E. Miller
Ref. MR 787 Reproed.

KILLED

Killed 12-20-66
Died Method $CHCl_3$ Survival: d h m Change P.M. Time

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.72			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.28			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.78			Es./Stom.				Bo./B.M.			
Spleen	0.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-20-66
Pathologist William C. Kraner
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

12/22/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003793

NECROPSY RECORD

Material Pb Acetate Exp II Excipient ——

H. 4154
No. 80096 R1
MR No. 787

Animal Rat Strain Rat Sex ♂ Age 21 Days Diet GPLC + 1% Ca

Test 2yr-feeding Phase Reproduction F3B Gen. Dose .01% Pb 10 PPM Days: Test 21, Recovery ——

Observations: Animal has peculiar gait; hind legs splayed

Weights
Initial ——
Intermediate ——
Final 43
T.I. E. Miller
Ref. MR-787 Rpwd.

KILLED

Killed 12-19-66 Survival: P.M. Time ——
Died —— Method CO2 d —— h —— m —— Change ——

General Condition Acabose

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes —— No ——
Tissue Saved: Yes ✓ No ——
Histology Follows: Yes —— No ——

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
(Br.)/Sp.C.			✓	T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				(N)/M./F.		✓	
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

(✓) Tissue saved.

12-19-66
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ——
Date ——

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003794

NECROPSY RECORD

Material Pb Acetate 4pm Excipient —

H. 4154
No. 80096 R2
MR No. 787

Animal Rat Strain ChR Sex ♂ Age 21 Days Diet GPLC + 1% Co

Test 2yr feeding Phase Reproduction F3B gen. Dose .01% Pb 10 ppm Days Test 21 Recovery

Weights
Initial
Intermediate
Final 46
T.I. E. Miles
Ref. MR-787 Rpsod

Observations: Animal has peculiar gait; hind legs splayed.

KILLED

Killed 12-19-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition Asalive

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
(Br./Sp.C.)		✓		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				(N.)/M./F.		✓	
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

(✓) tissue saved

12-19-66
O.S.H.
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003795

NECROPSY RECORD

Material Pb Acetate Grp IV Excipient —

Animal Rat Strain CRL-CD Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr - feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days Test 21 Recovery —

H. 41541
No. 80098 R1
MR No. 787

Observations:

Weights
Initial —
Intermediate —
Final 59
T.I. E Miles
Ref. MR-787 Repeat

KILLED

Killed 12-14-66 Survival: P.M. Time — General Condition NAD

Died — Method CHCl3 d — h — m — Change —

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.7			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.3			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.1			Es./Stom.				Bo./B.M.			
Spleen	0.3			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist E Zuricks
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003796

NECROPSY RECORD

Material Pb acetate Gp IV Excipient ~~~

H. 4154
No. 80098 R2
MR No. 787

Animal Rat Strain CRL Sex ♂ Age 91 Days Diet GPLC + 1% Co

Test 2yr. feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 55
T.I. E Mills
Ref. MP-782 Repeat.

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.7			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.035			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	1.8			Es./Stom.				Bo./B.M.			
Spleen	0.2			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist D. Zwicker
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003797

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ~~~

H. 41654
No. 80101 R1
MR No. 787

Animal Rat Strain CRL Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction F3b generation Dose Ck .01% Pb 100 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 63
T.I. E. Miles
Ref. MR-787 Repeat.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.68			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.28			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.51			Es./Stom.				Bo./B.M.			
Spleen	0.31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-16-66
C.H.
Pathologist L. Zucker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003798

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ~~~

H. 4154
No. 80101 R2
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet GPLC + 1% Co

Test 2yr feeding Phase Reproduction F3B generation Dose .01% Pb 10-0 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 64
T.I. E. Miles
Ref. MR-787 Repeated.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.75			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.39			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.80			Es./Stom.				Bo./B.M.			
Spleen	0.34			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-16-66
Pathologist D Zwicker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003799

NECROPSY RECORD

Material Pb Acetate Hp III Excipient ———

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% Co

Test 2 yr. feeding Phase Reproduction F3B Generation Dose .01% Pb 100 PPM Days Test 21 Recovery

H. 4454
No. 80103 R1
MR No. 787

Observations:

Weights
Initial
Intermediate
Final 23
T.I. E. Miller
Ref. MR-787 Repeat

Killed 12-19-66
KILLED Method CHCl3 d h m Survival: P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.82			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.37			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.10			Es./Stom.				Bo./B.M.			
Spleen	0.39			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
Pathologist William C. Krause
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003800

NECROPSY RECORD

Material Pb Acetate 4ppm Excipient ———

H. 41154
No. 80103 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 4% Co

Test 2yr feeding Phase Reproduction Dose .01% Pb 100 PPM Days { Test 21 / Recovery

F3B Generation

Observations:

Weights
Initial
Intermediate
Final 70
T.I. E Miller
Ref. MR. 787 Rpt'd.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.85			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.36			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.00			Es./Stom.				Bo./B.M.			
Spleen	0.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
Pathologist William C. Krause
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003801

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ———

Animal Rat Strain CD Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days Test 21 Recovery

H. 4154
No. 800946 R3
MR No. 787

Observations:

KILLED

Weights
Initial
Intermediate
Final 65
T.I. E. Miles
Ref. MR-787 Repro.

Killed 12-20-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition WAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.79			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.96			Es./Stom.				Bo./B.M.			
Spleen	0.36			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

WAD

12-20-66
Pathologist [signature]
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

[signature]
12/22/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003802

NECROPSY RECORD

Material Pb Acetate Gp. IV Excipient —

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days Test 21 Recovery

H. 41154
No. 80094 R4
MR No. 187

Observations:

KILLED

Killed 12-20-66
Died — Method CHCl3 d — h — m — Survival: P.M. Time — Change —

Weights
Initial —
Intermediate —
Final 63
T.I. E. Miller
Ref. MR-787 Rpted

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.77			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./Lu./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.78			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-20-66
MAG
Pathologist William C. Krauss
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

GDF
12/21/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003803

NECROPSY RECORD

Material Pb acetate Gp IV Excipient —

H. 4154
No. 20092 R3
MR No. 787

Animal Rat Strain CAR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose .01% Pb 100 ppm Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 59
T.I. E. Miles
Ref. MR-787 Reported

KILLED

Killed 12-14-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.7			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.15			Es./Stom.				Bo./B.M.			
Spleen	0.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
Pathologist DMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003804

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient —

H. 4454
No. 80092 R4
MR No. 787

Animal Rat Strain CRL Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2 gen. feeding Phase Reproduction F3B generation Dose 1% Pb 100 PPM Days {Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 57
T.I. E. Miller
Ref. MR 787 Repeat

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.70			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.17			Es./Stom.				Bo./B.M.			
Spleen	0.37			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
MRC
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003805

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient ———

H. 4154
No. 80098 R3
MR No. 787

Animal Rod Strain CR Sex ♀ Age 21 Days Diet 6 PLC + 1% CO

Test 2gp feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 56
T.I. E. Miles
Ref. MR 787 Repeat

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.69			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	1.68			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
Pathologist JMC Linz
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003806

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient —

H. 4154
No. 80098 R4
MR No. 787

Animal Rat Strain CRR Sex ♀ Age 21 Days Diet 6 PLC + 1% CO

Test 2yr-feeding Phase Reproduction F3b Generation Dose .01% Pb 100 ppm Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 50
T.I. E. Miles
Ref. MR-787 Reprod.

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.64			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	1.62			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
MAR
Pathologist
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003807

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4454
No. 80101 R3
MR No. 787

Animal Rat Strain ChR Sex ♀ Age 21 Days Diet CPLC+1% CO

Test 2 gn. Feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 61
T.I. 8. Mile
Ref. MR-787 Pg 10

KILLED

Killed 12-16-66
Died Method CH_4Cl_2 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.	0,78			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N:/M:/F.			
Liver/G.B.	2,48			Es./Stom.				Bo./B.M.			
Spleen	0,30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
Pathologist MAR L Zuricker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003808

NECROPSY RECORD

Material Pb Acetate Gp IV Excipient ~~~

H. 4154
No. 80108 R3
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction F3B generation Dose .01% Pb 100 PPM Days {Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 70
T.I. E. Miles
Ref. MR-787 Reprod.

Killed 12-19-66
KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,88			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,18			Es./Stom.				Bo./B.M.			
Spleen	0,42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003809

NECROPSY RECORD

Material Pb acetate Gp III Excipient ———

H. 44154
No. 80103 R4
MR No. 787

Animal Rat Strain CR Sex F Age 21 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction (F3B generation) Dose .01% Pb 100 PPM Days {Test 21 / Recovery ———

Observations:

Weights
Initial ———
Intermediate ———
Final 68

T.I. E. Mellis
Ref. NR-787 Repeat

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.82			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.95			Es./Stom.				Bo./B.M.			
Spleen	0.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Rowse
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003810

NECROPSY RECORD

Material Pb acetate Gp III Excipient —

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC+1% CO

Test 2 gen. feeding Phase Reproduction F3B Generation Dose .01% Pb 100 PPM Days Test 21 Recovery

H. 4454
No. 80101 R4
MR No. 787

Observations:

Weights
Initial
Intermediate
Final 64
T.I. E. Miles
Ref. MR-787 Reprod.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.95			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.08			Es./Stom.				Bo./B.M.			
Spleen	0.32			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
MAR
Pathologist G. Zuercher
Date 12/16/66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003811

NECROPSY RECORD

Material $Pb(Ac)_2$ Excipient

H. 4154
No. 80095 R1
MR No. 787

Animal RatN Strain Ch R-CD Sex ♂ Age 21 days Diet 6PLC 4% CO

Test 2 Yr Feeding Phase Reproduction F3B generation Dose 0.01% Pb (100 ppm) Days Test 21 Recovery

Observations: Animal appears to have problem w hind legs

Weights
Initial
Intermediate
Final 40
T.I. E. Miles
Ref. MR-787; Report

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition Legs splayed apart when held by tail, (hind)

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No ✓
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				(N)/M./F.		/	
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Gross Only

1) No sciatic nerve apparent (right) Left - appears thinner than usual.

(No tissue saved)

12-16-66
O.Ed.
Pathologist J. Zuschlag
Date 12-16-66

Cause of Death: NO TISSUE SAVED

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003812

NECROPSY RECORD

Material Pb(Ac)2 Excipient —

H. 4154
No. 80095 R2
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 21 Diet 6PLC+1%CO

Test 2-Yr. Feeding Phase Reproduction F3B generation Dose 0.01% Pb (100 ppm) Days Test 21 Recovery

Observations: Animal appears to have problem w hind legs

Weights
Initial
Intermediate
Final 319
T.I. E. Miller
Ref. 787 - Repro

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition when held up by tail, hind legs crossed,

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No ✓
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD Gross Only

NO TISSUE SAVED

12-16-66
MR
Pathologist L. Zuckerkandl
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003813

NECROPSY RECORD

Material: Weanling intended for Feed Study Excipient: —

H. 4154
No. 69520
MR No. 787

Animal: Rat Strain: CHR-CD Sex: ♂ Age: 27 days Diet: GLC + 1% CD

Test: 2 Year Feed Phase: Pretest Dose: None Days: Test —, Recovery —

Observations: Suspected Hydrocephalus

Weights
Initial 43 (4-8)
Intermediate 45 (4-12)
Final 44 (4-13)

T.I. S. Baldwin
Ref. MR 787 Rat

Killed: 4-13-65
Died: — Method: CO2

Survival: d — h — m —

P.M. Time —
Change —

General Condition: As above — agreed.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes ✓ No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
(Br.)/Sp.C.		1 ✓		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Hydrocephalus - & hemorrhage - dorsal & ventral in cranium.

(No other abnormality detected, no other tissue saved.

C.H.
Pathologist: J. M. Zwicker
Date: 4-15-65

Cause of Death:

HISTOPATHOLOGY

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003814

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient ———

H. 4154
No. 79999 R3
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC + 1% CO

Test 2yr-feeding Phase Reproduction F3B generation Dose Control Days { Test 21 / Recovery ———

Observations:

Weights
Initial ———
Intermediate ———
Final 58
T.I. E. Miller
Ref. MR-787 Repeat

KILLED

Killed 12-14-66
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.39			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.32			Es./Stom.				Bo./B.M.			
Spleen	0.23			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
MAC
Pathologist GMZ
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003815

NECROPSY RECORD

Material Pb Acetate Gp I (course for) Excipient —

Animal Rat Strain CFE Sex ♀ Age 21 Days Diet GPLC + 1% Ca

Test 2yr feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

H. 4164
No. 79999 R4
MR No. 787

Weights
Initial
Intermediate
Final 61

T.I. E. Miller
Ref. MR-787 Lipscomb

Observations:

KILLED

Killed
Died Method Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.78			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.27			Es./Stom.				Bo./B.M.			
Spleen	.23			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
MAR GMZ
Pathologist
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003816

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient ~

H. 4154
No. 80002 R3
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLA+1% Ca

Test 2yr feeding Phase Reproduction F3b Generation Dose Control Days Test 21 Recovery

Observations:

KILLED

Weights
Initial
Intermediate
Final 57
T.I. E. Miles
Ref. MR-787-Repeat

Killed 12-20-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.72			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.29			Es./Stom.				Bo./B.M.			
Spleen	0.20			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-20-66
Pathologist Wm C. Brown
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

SD
12/22/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003817

NECROPSY RECORD

Material Conc. for Pb Acetate Gp I Excipient —

H. 454
No. 30012 Rpt
MR No. 787

Animal Rat Strain CHR Sex F Age 21 days Diet GPLA + 1% CO

Test 2yr feeding Phase Reproduction Dose Control Days Test 21 Recovery

F30 generation

Observations:

Weights
Initial
Intermediate
Final 56
T.I. E Miller
Ref. MR 787 - Repeat

KILLED

Killed 12-20-66 Survival: P.M. Time General Condition NAD
Died Method CHCl3 d h m Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.72			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.26			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-20-66
Pathologist MAR William C. Krause
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

84
12/22/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003818

NECROPSY RECORD

Material General Use Pb Acetate Excipient —

H. 4154
No. 80006 R3
MR No. 787

Animal Rat Strain CLR Sex ♀ Age 21 Days Diet GPLC+1% CO

Test 2yr feeding Phase Reproduction (F3B generation) Dose Control Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 71
T.I. E. Miles
Ref. MR-787 Repeat

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.85			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.19			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
MAK
Pathologist L Zucker
Date 12/16/66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003819

NECROPSY RECORD

Material Control for Pb Acetate Excipient —

H. 4454
No. 80006 R4
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet 6PLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 70
T.I. C Miles
Ref. MR. 787 Repeat.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.80			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.02			Es./Stom.				Bo./B.M.			
Spleen	0.41			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
MR
Pathologist L Zuricker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003820

NECROPSY RECORD

Material Pb Acetate Gp I (control for) Excipient —

H. 4454
No. 80008 R3
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC+1% Co

Test 2yr. feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final ~~60~~ 58
T.I. E Miles
Ref. MR-787 Reprint

KILLED

Killed 12-14-66
Died Method $CHCl_3$ d h m Survival: Change P.M. Time

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.77	1		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.02			Es./Stom.				Bo./B.M.			
Spleen	0.22			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD 1) Hydronephrosis, unilateral.

12-14-66
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003821

NECROPSY RECORD

Material General Par Pb Acetate Control Excipient —

H. 4154
No. 80008 R4
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC+1% CO

Test 2yr feeding Phase Reproduction F3B generation Dose Control Days: Test 21, Recovery

Observations:

Weights: Initial; Intermediate; Final 54; T.I. E Mules; Ref. MR-787 Reported.

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.64			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.03			Es./Stom.				Bo./B.M.			
Spleen	0.27			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-14-66
MR
Pathologist GMZ
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003822

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient ——

H. 4154
No. 80009 R3
MR No. 187

Animal Rat Strain CBR Sex F Age 21 Days Diet GPLC + 1% CO

Test 2gp- feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 65

T.I. E. Miles
Ref. MR-787 Reprod.

Killed 12-19-66 Method KILLED CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.75			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.60			Es./Stom.				Bo./B.M.			
Spleen	0.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Krauss

Cause of Death:

Date 12-19-66

HISTOPATHOLOGY

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003823

NECROPSY RECORD

Material Control Pair Pb Acetate Gp I Excipient —

H. 4454
No. 80009 R4
MR No. 787

Animal Rat Strain CR Sex F Age 21 Days Diet GPLC+170 CO

Test 2yr-feeding Phase Reproduction F1B generation Dose Control Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 65
T.I. E. Miller
Ref. MR-787 Reposed.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.77			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.73			Es./Stom.				Bo./B.M.			
Spleen	0.36			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-19-66
Pathologist William C. Rowe

Cause of Death:

Date 12-19-66

HISTOPATHOLOGY

Pathologist
Date

NECROPSY RECORD

Material Control for Pb Acetate Control Gp I Excipient ~~~~~

H. 4154
No. 79999 R1
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase Reproduction F_{3B} generation Dose Control Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final TO
T.I. E. Miles
Ref. MR-787 Repeat

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.82			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.29			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.92			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
CHH
Pathologist GMZ
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003825

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient —

H. 4154
No. 79999 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose Control Days Test 21 / Recovery

Observations:

Weights
Initial 24
Intermediate
Final 62
T.I. E. Miles
Ref. MR. 787 Lipsod.

KILLED

Killed —
Died — Method — Survival: d — h — m — P.M. Time — Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.71			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.60			Es./Stom.				Bo./B.M.			
Spleen	0.27			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist GMZ
Date 12-14-66

HISTOPATHOLOGY

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003826

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient ———

H. 4154
No. 80002 R1
MR No. 787

Animal Rat Strain CHR Sex ♂ Age 21 Days Diet 6PLC + 1% CO

Test 2yr feeding Phase Reproduction Dose Control Days Test 21 Recovery

F3B generation

Observations:

Weights
Initial
Intermediate
Final 54
T.I. E Miller
Ref. MR-787 Reprod

KILLED

Killed 12-20-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.72			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.28			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.15			Es./Stom.				Bo./B.M.			
Spleen	0.26			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-20-66
GMK
Pathologist William C. Krauss
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

PGF
12/22/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003827

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient ~~~

Animal Rat Strain CLR Sex ♂ Age 21 Days Diet CPLC + 1% Co

Test 2yr feeding Phase Reproduction F38 generation Dose Control Days Test 21 Recovery

H. 44154
No. 80092 R2
MR No. 787

Observations:

Weights
Initial
Intermediate
Final 48
T.I. E Miles
Ref. MR 787 Reprod

KILLED

Killed 12-20-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,51			Thym./N.F.			
Br./Sp.C.				T./Ov.	0,20			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	1,91			Es./Stom.				Bo./B.M.			
Spleen	0,20			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-20-66
Pathologist William C. Krauss
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

12/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003828

NECROPSY RECORD

Material Control for Pb Acetate Excipient ———

H. 4154
No. 80006 R,
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery ———

Observations:

Weights
Initial ———
Intermediate ———
Final 72
T.I. E. Miller
Ref. MR-787 Repeat.

KILLED

Killed 12-16-66
Died ——— Method CHCl3 Survival: d ——— h ——— m ——— P.M. Time ——— Change ———

General Condition ✓ in MR.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.85	1		Thym./N.F.			
Br./Sp.C.				T./Ov.	0.35			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3.19			Es./Stom.				Bo./B.M.			
Spleen	0.33			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Hydronephrosis, right.

12-16-66
C.H.
Pathologist L Zwicker
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003829

NECROPSY RECORD

Material Control for Pb acetate Excipient —

H. 4154
No. 80006 R2
MR No. 787

Animal Rat Strain CR Sex ♂ Age 21 Days Diet GDLC + 1% Ca

Test Rep: Fertility Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

Observations:

KILLED

Weights
Initial
Intermediate
Final 71
T.I. E. Miller
Ref. MR-787 Repeat

Killed 12-16-66 Survival: P.M. Time General Condition NAD
Died Method CO2 d h m Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,81	1		Thym./N.F.			
Br./Sp.C.				T./Ov.	0,36			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	3,10			Es./Stom.				Bo./B.M.			
Spleen	0,37			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Hydronephrosis, right

12-16-66
CHH
Pathologist D. Zinecker
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003830

NECROPSY RECORD

Material Control for Pb Acetate, Gp I Excipient ———

H. 4154
No. 8000 B R,
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 21 Days Diet GPLC+1% CO

Test 2yr. feeding Phase Reproduction F3B generation Dose Control Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 68
T.I. E. Mile
Ref. MR-787 Lipomed.

KILLED

Killed 12-14-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.69			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.21			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.21			Es./Stom.				Bo./B.M.			
Spleen	0.20			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003831

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient —

H. 4454
No. 80008 R2
MR No. 787

Animal Rat Strain CBR Sex ♂ Age 21 Days Diet GPLC + 1% Ca

Test 2yr - feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

Observations:

KILLED

Weights
Initial
Intermediate
Final 61
T.I. E. Miles
Ref. MR. 787 Repeat.

Killed
Died Method Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.68			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.30			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.33			Es./Stom.				Bo./B.M.			
Spleen	0.29			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist GMZ
Date 12-M-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003832

NECROPSY RECORD

Material Pb Acetate Gp I (course for) Excipient —

H. 4154
No. 80009 R1
MR No. 787

Animal Rat Strain CRL Sex ♂ Age 21 Days Diet GPLC + 1% CV

Test 2 gen. feeding Phase Reproduction (F1B Generation) Dose Control Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 67
T.I. E. Miles
Ref. MR-787 Report

Killed 12-19-66 Method KILLED CHCl3 Survival: d h m P.M. Time Change

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.76			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.31			Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.85			Es./Stom.				Bo./B.M.			
Spleen	0.38			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

12-19-66
WCK.
Pathologist William C. Krauss
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003833

NECROPSY RECORD

Material Control for Pb Acetate Gp I Excipient —

H. 4154
No. 20029 R2
MR No. 187

Animal Rat Strain Chb Sex ♂ Age 21 Days Diet GPLC + 1% Ca

Test Rep. feeding Phase Reproduction F3B generation Dose Control Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 69
T.I. E. Miles
Ref. MR-187 Rprvd.

Killed 12-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.78			Thym./N.F.			
Br./Sp.C.				T./Ov.	0.30			Thyr./P.T.			
Ht./B.V.				Epd./Flm.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.90			Es./Stom.				Bo./B.M.			
Spleen	0.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-19-66
Pathologist William C. Krumm
Date 12-19-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003834

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 41154
No. 74699 (Pup)
MR No. 787

Animal Rat Strain CHR-CD Sex ♂ Age 21 days (F_{2A}) Diet GPLC + 1% CO

Test 2 year feeding Study Reproduction Study Phase Test Dose .001% Pb Hg II Days { Test / Recovery

Observations: Tiny white born, ruffled fur, unkempt scaly skin, very little hair, eyes large

GROSS ONLY

Weights
Initial
Intermediate
Final 23 gm
T.I. E. Miles
Ref. Pb acetate, Reproduction

Killed 3-23-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition ventral surface moist + dirty (fecal material) Study solids puffy with some chromo animal trouble

Histology Recommended: Yes No
Tissue Saved: Yes No ✓
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor./Abd.)		(1)		Kidney				Thym./N.F.			
(Br./Sp.C.)		(2)		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Organs generally pale

(2) hydrocephaly

NO TISSUE SAVED

3-23-66 MMR
Pathologist William C. Krause
Date 3-23-66

Cause of Death:

HISTOPATHOLOGY

GROSS ONLY

SH
3-24-66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003835

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CD-CD Sex ♀ Age 4/5/66 Diet GPLC + 1% @0

Test Reproduction Phase Test Dose .001% Pb Days Test 195 Recovery

Observations: Have birth to 12 normal pups 5/9/66

@ H. 4154 F18 No. 74700 MR No. 787

Weights Initial 140 Intermediate 303 Final 5/2 402

T.I. E-Mills Ref. MR-787

FOUND DEAD

Killed Died F-dead 5/26 Method — Survival: d h m Change advanced

P.M. Time 18hr ? General Condition placid cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No

Tissue Saved: Yes No ✓

Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.		(2)		Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) all lobes diffusely red dark & bright red; cut surface of lobes oozes blood

(2) moderate amount of red tinged fluid in thor. cavity

NO TISSUE SAVED

5-26-66 MK

Pathologist G M Zwicker

Date 5-26-66

Cause of Death:

HISTOPATHOLOGY

DFF 5/27/66

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003836

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

H. 4154
No. 80029 R3
MR No. 787

Animal Rat Strain CKR Sex ♀ Age 21 Days Diet GPLC + 1% Co

Test 2yr. feeding Phase Reproduction F3B generation Dose .001% Pb 10 PPM Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 60
T.I. E Miles
Ref. MA-787 Rpt'd

KILLED

Killed 12-14-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.80			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.33			Es./Stom.				Bo./B.M.			
Spleen	0.21			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
NAE
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003837

NECROPSY RECORD

Material Pb Acetate Lot II Excipient ———

H. 4454
No. 80029 R4
MR No. 787

Animal Rat Strain C&R Sex F Age 21 Days Diet GPLC+10% CO

Test 2yr feeding Phase Reproduction F3b generation Dose .001% Pb 10 PPM Days { Test / Recovery

Observations:

Weights
Initial
Intermediate
Final 59
T.I. E. Miller
Ref. MR-787 Lipscomb

KILLED

Killed 12-14-66
Died ——— Method CHCl3

Survival: d h m

P.M. Time ———
Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes X No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.76			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.29			Es./Stom.				Bo./B.M.			
Spleen	0.32			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66
MAR
Pathologist GMZ
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003838

NECROPSY RECORD

Material Pb Acetate Gp II Excipient

H. 4154
No. 80035 R3
MR No. 787

Animal Rat Strain CRL Sex ♀ Age 21 Day Diet GPLC + 1% CO

Test 2yr feeding Phase Reproduction F3B generation Dose .001% Pb 10 PPM Days Test Recovery 21

Observations:

Weights
Initial
Intermediate
Final 58
T.I. E Mills
Ref. MR-787 Pyridine

KILLED

Killed 12-14-66
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.71			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.23			Es./Stom.				Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-14-66 mse
Pathologist
Date 12-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003839

NECROPSY RECORD

Material Pb Acetate Opt II Excipient —

H. 4154
No. 20035 R4
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Day Diet GPLC + 1% CO

Test 2yr. feeding Phase Reproduction F3B Generation Dose .001% Pb 10 ppm Days Test 21 / Recovery —

Observations:

Weights
Initial —
Intermediate —
Final 53
T.I. E Miller
Ref. MR 787 Original

KILLED

Killed 12-14-66
Died — Method CHCl3 Survival: d — h — m — P.M. Time — Change —

General Condition NAO

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No —
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.70			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.07			Es./Stom.				Bo./B.M.			
Spleen	0.31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAO

12-14-66
MAK GMZ
Pathologist
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003840

NECROPSY RECORD

Material Pb acetate Exp II Excipient —

H. 4454
No. 80036 R3
MR No. 787

Animal Rat Strain CD Sex ♀ Age 21 Days Diet 6 RC + 1% Ca

Test Dep- fetal Phase Repro- Eggs Dose .0017a R3 Days { Test 21 / Recovery

Observations:

Weights
Initial
Intermediate
Final 57
T.I. E. Miller
Ref. MR-787-Report

KILLED

Killed 12-21-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0.65			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2.19			Es./Stom.				Bo./B.M.			
Spleen	0.19			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

12-21-66
CHL
Pathologist William C. Krauss
Date 12-21-66

Cause of Death:

HISTOPATHOLOGY

SLF
12/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003841

NECROPSY RECORD

Material Pb Acetate Lp III Excipient

H. 4154
No. 80063 R4
MR No. 787

Animal Rat Strain CR Sex ♀ Age 21 Days Diet GPLC + 1% Ca

Test 2yr feeding Phase Reproduction F2B Generation Dose .005% Pb 50PPM Days Test 21 Recovery

Observations:

Weights
Initial
Intermediate
Final 68
T.I. E. Miles
Ref. MR-787 Reprod.

KILLED

Killed 12-16-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	0,80			Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	2,92			Es./Stom.				Bo./B.M.			
Spleen	0,33			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

12-16-66
Pathologist MAS G Zuricks
Date 12-16-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003842

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ——

Animal Rat Strain CR CD Sex F Age 779 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days Test 746 Recovery ——

H. 415-4
No. 70103
MR No. 787

Observations:

Continued wgt loss from 2/28

KILLED

Weights
Initial 186
Intermediate 407
Final 470
T.I. Evans
Ref. MR-787

Killed 5/5/67 Survival: P.M. Time ——
Died —— Method CH Cl3 d —— h —— m —— Change ——

General Condition: Chromo on right eye; animal pale (anemic) in general

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes —— No ——
Tissue Saved: Yes V No ——
Histology Follows: Yes —— No ——

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	14.75	(2)		Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.				Thyr./P.T.		(1)	
Ht.(B.V.)	1.80	(5)		Epd./Fim.				Adren.	0.083	(3)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.028	(4)	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.68			Es./Stom.	2.65			Bo./B.M.			
Spleen	0.075			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Thyroids pale; parathy. slightly enlarged

(2) both kidneys were very pale tan, spongy, granular, + sl. cystic.

(3) both adrenals were very pale tan

(4) pit. appeared spongy; a 1mm dia. defect found on ant. surface right side.

(5) aorta appeared to be slightly rigid.

5-5-67
MR
BMS

Pathologist D M Zwicker
Date 5/8/67

Cause of Death:

HISTOPATHOLOGY

5/17/67

Pathologist ——
Date ——

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003843

NECROPSY RECORD

Material Pb Acetate Cap III .005% Pb Excipient ———

Animal Rat Strain CRL:CD Sex Female Age 755 Days Diet GPLC+1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPm Days {Test 721 / Recovery ———

H. 4154
No. 64769
MR No. 787

Weights
Initial 94
Intermediate 373
Final 770 3/28
T.I. E Miller
Ref. MR-787

Observations:
1/31/67 Solid mass posterior & rt. flank 1½"
3/28/67 mass grown to 4" with necrotic surface

Killed FOUND DEAD
Died Fd 4-11-67 Method — Survival: ——d——h——m P.M. Time ——— Change ———

General Condition large mass as above, open + partly cannibalized; animal thin + pale.

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(3)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.	L-0.397 R-0.046	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(2)		Es./Stom.				Bo./B.M.		(5)	
Spleen				Du./Je./Il.				Sk./App.	3.19.05	(4)	
Pancreas				Ce./Co./Re.				Ey./Ea/No/Mo		(5)	

(1) left adrenal pretty enlarged, spongy consistency (1.0cm x 0.7cm)

(2) pale tan and swollen

(3) pale brown

(4) large mass as above; 14cm x 8cm x 5cm, firm, grayish-white to dull purplish-red in color also one small mild pedicle anterior to left hindleg.

4-11-67
MAR
Pathologist J M Zuercher
Date 4-11-67

Cause of Death:

HISTOPATHOLOGY

(5) pale (anemic?)

JMZ
4/14/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003844

NECROPSY RECORD

Material Pb Acetate Gp III Excipient ———

III
H. 41154
No. 69781
MR No. 787

Animal Rat Strain CR-CD Sex F Age 672 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Test Dose .005% Pb 50 PPM Days { Test 638 / Recovery ———

Observations:
Continuous wgt loss from 11-22-66
F. dead 1-18-67

FOUND DEAD

Weights
Initial 88
Intermediate 290
Final 292 1-17
T.I. E. Mills
Ref. MR. 787

Killed ———
F.D. Died 1-18-67 Method ——— Survival: d ___ h ___ m ___ P.M. Time overnight Change mod-adv

General Condition Pale, rigel cadaver. Peripheral eng. & dehydration.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3 ✓		Thym./N.F.			
Br./Sp.C.		P.H.		T./Ov.				Thyr./P.T.		P.M. ✓	
Ht./B.V.		P.H.		Epd./Fim.		P.M. Changes		Adren.		✓	
Tr./La./Br.		P.H.		S.V./F.T.				Pit./Pin.	0.222	0.3 ✓	
Lungs		1 ✓		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./B.M.			
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red areas (Hemorrhages?)

2) Pale.

3) Dark red mass 1.2 × 0.7 × 0.6 Cm.

(✓) tissue saved.

1-18-67
C.H.
Pathologist E M Zwicker
Date 1-18-67

Cause of Death:

HISTOPATHOLOGY

RCP
1/20/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003845

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69783
MR No. 787

Animal Rat Strain CRL·CD Sex F Age 776 Diet GPLC + 10% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days {Test 742 / Recovery ———

Observations:
4/8/67 mass 2" anterior to rt hind leg
Soft moveable mass between pelvic 1"

Weights
Initial 89
Intermediate 299
Final 510
T.I. E Miles
Ref. HLR·787

Killed 5-2-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change
General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.25			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.087	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026	(4)	
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.30	(5)		Es./Stom.	1.80			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.		(1)(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(A) (1) mass 68.2g 5cm diam round - rt lower inguinal group.
(2) large mottled red brown.
(B) (3) mass 9.0g 3-3-1.5 cm diffuse mammary type mass, location rt upper pectoral group contains some caseous like material.
(4) dark red focus rt anterior pituitary.
(5) lobular markings slightly prominent.

5-2-67 GHL
Pathologist [signature]
PCLF Date 5-12-67

Cause of Death:

HISTOPATHOLOGY

5/17/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003846

NECROPSY RECORD

Material Pb Acetate GP .105% Pb Excipient —

Animal Rat Strain CHR.CD Sex F Age 775 Diet G PLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 741 Recovery

H. 41154
No. 69784
MR No. 787

Observations:

4/26/66 eyes dark red i color and watery

Weights
Initial 73
Intermediate 712
Final 688
T.I. E. Miller
Ref. MR-787

Killed 5-1-67
Died KILLED Method CH2 Survival: d h m P.M. Time Change

General Condition Arabove

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes / No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.30			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.169	①	
Tr./La./Br.				S.V./F.T.				Pit./Pin. .034	0.169	②	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.40			Es./Stom.	3.30			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① enlarged, dark with white speckling

② Slightly porcelin

5-1-67
Pathologist [signature]
Date 5-1-67

Cause of Death: CSTExm

HISTOPATHOLOGY

5/1/67

Pathologist
Date

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 41154
No. 69793
MR No. 787

Animal Rat Strain CBR-CD Sex ♀ Age 406 days Diet GPLC + 1% CO

Test 2 year feeding Phase Test Dose Gp III .005% Pb Days Test 322 Recovery

Weights
Initial 99
Intermediate 374
Final 450
T.I. E. Miller
Ref. Pb Acetate 2 yr study

Observations:
solid moveable mass posterior to the left forelg 1½" in diameter)

Killed 4-27-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition perineal region moist staining yellow

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.65			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.10			T./Ov.				Thyr./P.T.			
(Ht./B.V.	1.17			Epd./Fim.				Adren.	0.089		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.	0.022		
Lungs	1.83			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	19.10			Es./(Stom.)	1.89			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App. (MASS)	56.45	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) firm mass, red-brown on cut surface.

(occipitotemp-trans 5-18-66 MAR)

Cause of Death:

Pathologist G.M. Zuricker
MAR Date 4-21-66
4-21-66

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003848

NECROPSY RECORD

Material Lead Acetate Gel Excipient

H. 4154
No. 69797
MR No. 781

Animal Rat Strain ACI-CD Sex ♀ Age 499 Days Diet GPLC + 1% Ca

Test 2yr- feeding Phase test Dose .005% Pb 50 PPM Days Test 464 Recovery

Observations: Emaciated. Chromo around face. Lying on one side, ptosis

KILLED

Weights
Initial 180
Intermediate 400
Final 317
T.I. C. Pathol
Ref. NR-781

Killed 7-29-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition As above, + milk pockets in perineal region.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.30			Thym./N.F.	—		
Br./Sp.C.	2.06	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.03			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.456	3	
Lungs	1.21			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.53	2		Es./Stom.	1.50			Bo./B.M.			
Spleen	0.28			Du./Je./Il.				(Sk)/App.		4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Compressed at base re- pituitary mass.

2) Pale yellow.

3) Mass - firm like, firm. 1.0 × 1.2 × 0.6 Cm.

4) Several milk pockets in perineal area (grouped)

7-29-66
C.H.
Pathologist William C. J. Kraves
Date 7-29-66

Cause of Death:

HISTOPATHOLOGY

8-1-66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003849

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69801
MR No. 787

Animal Rat Strain CHR-CD Sex ♀ Age 8 D. 3/17/65 Diet GPLC + 1% CO

Test 2yr. feeding Study Phase test Dose H + 4154 0.005% Pb Gr. III Days

Test 197
Recovery

Observations: Solid mass ½" diameter between forelegs 8/31/65

Weights
Initial 95
Intermediate
Final 468
T.I. Elsie Sutton
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.F.	.31		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.20			Epd./Fim.				Adren.	.056		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.026		
Lungs	1.50			Pr./Ut.				Sal./Lac.		1	
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.50			Es./Stom.				Bo./B.M.			
Spleen	.69			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① enlarged

Pathologist G M Zweker
Date 11/3/65

Cause of Death:

HISTOPATHOLOGY

EH
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003850

NECROPSY RECORD

Material Pb acetate, Gp III Excipient ~~~

H. 41154
No. 69807
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 660 Days Diet GPLC+1% CO

Test 2yr - feeding Phase test Dose .005% Pb 50 PPM Days Test 626 Recovery

Observations:
teeth cut frequently
1-6 pallor, sacrificed for cause

Weights
Initial 92
Intermediate 361
Final 488
T.I. E. Miles
Ref. MR-787

KILLED

Killed 1-6-67
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition ~~~ as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.35			Thym./N.F.	—	3	
Br./Sp.C.	2.20			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.61			Epd./Fim.				Adren.	0.080	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.062	5	
Lungs	1.80	1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.96	2		Es./Stom.	2.11			Bo./B.M.			
Spleen	0.42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red area, anterior portion left lobe.

2) Pale, lobular markings prominent, raised area - brownish red - right side median lobe, Cyst? Semi-firm 0.8 Cm dia.

3) Petechial Hemorrhage?

4) Mottled red brown.

5) Mass - partly vascular 0.4 Cm dia.

1-6-67
Pathologist J. M. Zuckes
Date 1-6-67

Cause of Death:

HISTOPATHOLOGY

RH
1-9-67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003851

NECROPSY RECORD

Material Pb Acetate Gp III · 005% Pb Excipient ———

H. 41574
No. 69809
MR No. 787

Animal Rat Strain Alb. CD Sex F Age 78d Diet BPLC + 1% CO

Test Exp feeding Phase Test Dose .005% Pb 50 PPM Days Test 748 Recovery

Observations:

1-31-66 palp movable mass posterior to rt foreleg 1"
" " " anterior to left hind leg 1½"

Weights
Initial 119
Intermediate 395
Final 640
T.I. Ellis
Ref. MR 787

KILLED,

Killed 5/8/67
Died ——— Method CHCl3

Survival: d ——— h ——— m ———

P.M. Time ———
Change ———

General Condition usable

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.044		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.191	(2)	
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.80	(1)		Es./Stom.	2.20			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App. (1)	16.80	(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Ma (2) (3)	3.70 98.60		

(1) Pale brown, lobular markings prominent

(2) Dark red vascular mass (.7mm × .5mm × .5 cm)

(3) (1) 3 × 3 × 1.5 cm - Mass mammary type - right lower pectoral region
(2) 2 × 1.5 × 1 cm - " " " left upper pectoral region
(3) 7.5 × 6 × 3.5 Cm. " " " left upper inguinal group - caseous like material

5-8-67
Pathologist GM Zwicker
Date 5/8/67

Cause of Death:

HISTOPATHOLOGY

5/13 67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003852

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4154
No. 69828
MR No. 787

Animal Rat Strain CAR·CD Sex ♀ Age 744 Diet GPLC + 1% EO

Test 2yr feeding Phase Test Dose .005% Days Test 710 Recovery

Weights
Initial 96
Intermediate 311
Final

T.I. E Miller
Ref. MR·787

Observations:
3/14 solid moveable mass at perineal area necrotic Sign
3/28 mass open

FOUND DEAD

Killed —
Died F. Dead 3/31 Method — d h m
Survival:
P.M. Time
Change moderate

General Condition rigid extremely pale cadaver
moribund

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.		(5)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.		(6)	
Lungs		(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(2)		Es./Stom.		(3)		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.	86.50	(7)	
Pancreas				Ce./Co./Re.		(4)		Ey/Ea/No/Mo			

blood very dilute (pale pink, watery) all organs extremely pale

(1) two circular, white, flat, firm 2mm - 3mm dia, on surface of left + right posterior lobes (each).

(2) pale tan, firm to cut

(3) several circular, 1mm dia areas of ulceration in glandular mucosa - stomach almost empty

(4) one formed feces (small amt of material in cecum)

3-31-67
MR Pathologist J M Zwicker
Date 3-31-67

Cause of Death:

HISTOPATHOLOGY

(5) dark

(6) 5mm dia. x 4mm high fibrous mass, firm & red-brown in color

(7) mass approx 7 mm dia, subcutaneous, as above (crater-like opening, not bleeding)

RJP
4/3/67

Pathologist
Date

NECROPSY RECORD

Material Lead Acetate III 9 Excipient

Animal Rat Strain CR-CD Sex ♀ Age 8.D. 3/17/65 Diet GPLC + 1% Ca

Test 2yr. feeding study Phase test Dose H* 4154 0.005% Days 88 Gr. III 9

Observations: none

H. 41154
No. 69834
MR No. 787
Test 197
Recovery
Weights
Initial 186
Intermediate
Final 389
T.I. Eliz. Mullen
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.75			Thym./N.F.	.59		
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.15			Epd./Fim.				Adren.	.082		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.019		
Lungs	1.15			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.19			Es./Stom.				Bo./B.M.			
Spleen	.53			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

11-3-65
G.Wu.
Pathologist Sam Ziemba
Date 11/3/65

Cause of Death:

HISTOPATHOLOGY

9 LP
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003854

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69833
MR No. 787

Animal Rat Strain CD-1 Sex F Age 775 Diet GPLC+1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 741 Recovery ———

Observations:
1-31-67 Solid mass left perineal area 2" diam.

Weights
Initial 85
Intermediate 295
Final 395

T.I. E Miller
Ref. NH 787

Killed 5/1/67
Died KILLED Method CO2 Survival: d h m P.M. Time Change

General Condition Moribund

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.50			Thym./N.F.			
Br./Sp.C.	1.90	(5)		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.09			Epd./Fim.				Adren.	0.060	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.229	(1)	
Lungs	1.61			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.00	(2)		Es./Stom.	1.90			Bo./B.M.			
Spleen	0.51			Du./Je./Il.				Sk./App.	107.70	(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(2) Liver pale brown

(4) mottled dark red-brown

(1) dark red vascular mass 9×6×4 mm.

(3) Large diffuse mammary type mass right inguinal 8×7×4 cm. diam.

(5) brain put in Bouins sol'n before section was taken 5-1-67 CM

Cause of Death: CAS. LMB Exam

Pathologist [signature] Date 5/1/67

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003855

NECROPSY RECORD

Material Pb Acetate Cap III, .005% Pb Excipient —

Animal Rat Strain CLR-CD Sex F Age 378 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days

H. 4154
No. 69837
MR No. 787
Test 744
Recovery
Weights
Initial 95
Intermediate 405
Final 850
T.I. E. Miller
Ref. MR. 787

Observations:
stubby tail.

Killed ~~KILLED~~
Died Method CO/O2 3 Survival: d h m P.M. Time Change

General Condition adabone 4 obese

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.95			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	2.00			Epd./Fim.				Adren.	0.100	3	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.038	4	
Lungs	2.65	1		Pr./Ut.				Sal./Lac.			
L N.				Bl./Ur.				N./M./F.			
Liver/G.B.	20.75	3		Es./Stom.	2.52			Bo./B.M.			
Spleen	1.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		5	

1) Multiple grey foci - all below 0.1 - 0.4 Cm. dia.
2) Pale brown, lobular markings prominent.
3) Mottled dark red brown.
4) Dark red focus - ventral surface - 0.2 Cm dia.
5) Optic Media, left.

5-4-67 GH
Pathologist [signature]
Date 5/8/67

Cause of Death:

HISTOPATHOLOGY

5/12/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003856

NECROPSY RECORD

Material Pb Acetate Grp III Excipient —

Animal Rat Strain CR.CD Sex ♀ Age 700 days Diet BPL Ca + 1% CO

Test 2yr. Perinatal Phase Test Dose .005% Pb 50PPM Days Test 666 Recovery

III
H. 41574
No. 69838
MR No. 787

Weights
Initial 104
Intermediate 321
Final 655
T.I. C.R. Wilcox
Ref. MR. 787

Observations:

10/25/66 solid moveable mass 2" left perineal area
12/31/67 mass grown to 4" with necrotic surface
2/14/67 not palpable

KILLED

Killed 2-15-67 Survival: P.M. Time

Died Method $CHCl_3$ d h m Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.35			Thym./N.F.	—	(2)	
Bl./Sp.C.	2.08			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.42			Epd./Fim.				Adren.	0.138		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.021		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				-N./M./F.			
Liver/G.B.	34.10	(1)		Es./Stom.	2.30			Bo./B.M.			
Spleen	1.50			Du./Je./Il.				Sk./App.	296.05	(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) large + smaller with rounded margins

(2) atrophied

(3) subcutaneous, lobulated mass in perineal region; measures 11.5 cm × 9.5 cm × 4.5 cm, from grayish-white to grayish-red in color

2-15-67
MAR Pathologist Lyn Zwicker
Date 2-18-67

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003857

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69839
MR No. 787

Animal Rat Strain CR-CD Sex F Age 406 days Diet GPLC+1% CO

Test 2 year feeding Phase test Dose Gp III .005% Pb Days Test 372 Recovery

Observations:

Weights
Initial 106
Intermediate 351
Final 470
T.I. E. Miles
Ref. Pb Acetate 2 yr study

Killed 4-27-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.21			(T.)/Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.41			Epd./Fim.				Adren.	0.066		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.027		
Lungs	1.54			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	14.57			Es./(Stom.)	2.17			Bo./B.M.			
Spleen	0.61			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-27-66
O.B.
Pathologist D.M. Zuicker
MAR Date 4-27-66
4-27-66

Cause of Death:

HISTOPATHOLOGY

JH
4/28/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003858

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 4154
No. 69859
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 127 days Diet 6 PLC + 1% CO

Test 2-yr. feeding Phase test Dose .005% (50 ppm) Pb Days Test 93 Recovery
GP III

Observations:

Weights
Initial 92
Intermediate
Final 297

T.I. Joan Carew
Ref. MR-787

KILLED

Killed 7-22-65 Survival: P.M. Time
Died Method CH Cl3 d h m Change

General Condition VAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.16			Thym./N.F.	0.58		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.97			Epd./Fim.				Adren.	0.059		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.09			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.83			Es./Stom.	1.11			Bo./B.M.			
Spleen	0.42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

VAD

7-22-65
C.V.al.
Pathologist William C. Reed
MR 7-22-65 Date 7/22/65

Cause of Death:

HISTOPATHOLOGY

E FS
7-23-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003859

NECROPSY RECORD

Material Pb [illegible] Excipient —

Animal Rat Strain [illegible] Sex F Age 776 Days Diet GPLC + 1% CO

Test [illegible] Phase Test Dose .005% Pb 50 PPM Days Test 713 Recovery

H. 4154
No. 69863
MR No. 787

Observations:

3/14 solid mass anterior to left hind leg 2"

Weights
Initial 94
Intermediate 405
Final 672
T.I. E Miller
Ref. MR-787

Killed 5-3-67
Died KILLED Method CH_4Cl_2 Survival: d h m P.M. Time Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.40	⑤		Thym./N.F.			
Br./Sp.C.	1.90			T. (Ov.)		② Rt.		Thyr./P.T.			
Ht./B.V.	1.71			Epd./Fim.				Adren.	0.109	⑥	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	1.62	③		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	30.50	④		Es./Stom.	2.60			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.	105.20	①	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① 7cm × 5cm × 4cm. (approx) subcutaneous, firm white & pink-white tissue in left perineal area

② 8mm Dia. fluid filled cystic cyst — right ovary

③ multiple 1mm. Dia. dark red foci over all lobes.

④ Large, swollen with rounded margins, friable.

⑤ Pale brown & granular (external & internal), bilateral

⑥ white & dark brown mottling

5-3-67 MAR

Pathologist D M Zwicker

Exam Cld. Date 5-3-67

Cause of Death:

HISTOPATHOLOGY

5-17-67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003860

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69869
MR No. 787

Animal Rat Strain CD.00 Sex F Age 779 Diet GPLC + 1% CO

Test 2yr feeding Phase Lost Dose .005% Pb 50 ppm Days Test 745 Recovery

Observations:

KILLED

Weights
Initial 108
Intermediate 340
Final 475
T.I. E Kluber
Ref. MD-787

Killed 5-5-67
Died ——— Method CO2 d ___ h ___ m ___ Survival: P.M. Time ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			Thym./N.F.			
Br./Sp.C.	2.22			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Flm.				Adren.	0.126	②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.057	③	
Lungs	1.94	①		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.00			Es./Stom.	1.98			Bo./B.M.			
Spleen	0.75			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① multiple red foci - 1/2 - 1 mm dia scattered
② mottled dark red brown, left very large
③ dark red focus anterior, hypertrophic

5-5-67
CH Pathologist L M Zwicker
Date 5-6-67

Cause of Death:

HISTOPATHOLOGY

RLD 6/17/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003861

NECROPSY RECORD

Material [illegible] Excipient _____

Animal Rat Strain [illegible] Sex F Age [illegible] Diet [illegible]

Test [illegible] Phase Wet Dose [illegible] Days

Observations: [illegible]

Weights
Initial [illegible]
Intermediate [illegible]
Final _____
TL [illegible]
Ret. [illegible]

FOUND DEAD Survival _____ P.M. Time _____

Died F dead Method _____ d ____ h ____ m Change [illegible]

Condition [illegible] General [illegible]

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Micro	Gross	Wt.	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./H.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Pitu.				Adren.			
Tr./Lg./Br.				S.V./Z.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. Nr.				Bl./Ur.				Nr./M./F.			
Liver/G.B.				Es./Stom.				Bo./S.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey./Ea./No./Mo.			

1- [illegible]
2- [illegible]
3 [illegible]
4- [illegible]

Cause of Death: _____

Pathologist [illegible]

Date [illegible]

HISTOPATHOLOGY

Pathologist _____

Date _____

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003862

NECROPSY RECORD

GP III

Material Lead Acetate Excipient

H. 4154
No. 69899
MR No. 787

Animal rat Strain Ch R-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .005% (50 ppm) Pb Days Test 93 Recovery

GP III

Observations:

Weights
Initial 121
Intermediate
Final 335

T.I. J. Carver
Ref. MR-787

KILLED

Killed 7-22-65
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40			Thym./N.F.	0.53		
Br./Sp.C.	1.84			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.91			Epd./Fim.				Adren.	0.063		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.012		
Lungs	1.17			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.02			Es./Stom.	1.38			Bo./B.M.			
Spleen	0.77			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

(Bladder missing-trimming MMR 8-10-65)

Cause of Death:

Pathologist William C. Krumpe
MMR 7-22-65 Date 7/22/65

E7H
72365

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003863

NECROPSY RECORD

Material Pb Acetate .005% Pb Hyp III Excipient ———

Animal Rat Strain Sprague-Dawley Sex ♀ Age 581 Days Diet GPLC + 1% Ca

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 547 Recovery ———

Observations: none

H. 4454
No. 699000
MR No. 787

Weights
Initial 105
Intermediate 352
Final 590
T.I. E. Miller
Ref. NIH-787

Killed 10-19-66 Survival: P.M. Time ———
Killed KILLED Method CHCl3 d ___ h ___ m ___ Change ———

General Condition mod.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.93			Thym./N.F.	—		
Br./Sp.C.	2.07			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.069		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	1.51			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.20	0		Es./Stom.	2.23			Bo./B.M.			
Spleen	0.83			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Oyellowish with rounded margins.

Cause of Death: 10-19-66

Pathologist William C. Krauss
Date 10-19-66

HISTOPATHOLOGY

RP
10/24/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003864

NECROPSY RECORD — Material Pb acetate Gp III .005% Pb Excipient —

H. 4154
No. 699-22
MR No. 787

Animal Rat Strain CHR-CD Sex F Age 782 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 748 Recovery

Weights
Initial 118
Intermediate 394
Final 788

T.I. Ellis
Ref. MR. 787

Observations:

KILLED

Killed 5-8-67
Died — Method CHCl3 — Survival: d h m — P.M. Time — Change —

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.10			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.95			Epd./Fim.				Adren. L / R	0.130 / 0.020	(1)	
Tr./La./Br.				S.V./F.T.				(Pit)/Pin.	0.048	(2)	
Lungs	1.37			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.70	(3)		Es./Stom.	2.70			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Left, considerably enlarged, Right partially atrophied; both adrenals were dark red brown.

(2) pituitary slightly enlarged + spongy with 1.5 mm dia dark red focus on dorsal surface extending through to ventral surface,

(3) a 4mm × 2mm × 2mm cystic focal area on surface of left liver lobe.

5-8-67
MRR
Pathologist D M Zuricker
Date 5-8-67

Cause of Death:

HISTOPATHOLOGY

5/8/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003865

NECROPSY RECORD

Material Pb acetate Gp III .005% Pb Excipient ———

Animal Rat Strain CbR CD Sex F Age 775 Diet GPLC + 1% CD

Test 2 yr. feeding Phase test Dose .005% Pb 50 PPM Days

H. 4154
No. 69927
MR No. 787
Test 541
Recovery

Observations: Continued wgt loss since 10/6/66

Weights
Initial 91
Intermediate 330
Final 460
T.I. C Hulse
Ref. PHA-787

Killed 5-1-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition mod.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.5			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.		(1)		Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	L 0.127 R 0.048	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.053	(3)	
Lungs	1.60			Pr./Ut.				Sal./Lac.			
L.N.				BL/Ur.				N./M./F.			
Liver/G.B.	13.99			Es./Stom.	2.10			Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) left ovary cystic

(2) left lung, dark red

(3) hypertrophic several dark red foci both dorsal & ventral surfaces

5-1-67
CHH
bmb Pathologist D.M. Zuricks
CLF:e:m Date 5/10/67

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003866

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4454
No. 68928
MR No. 787

Animal Rat Strain PHR-CD Sex F Age 778 Diet GPLC + 1% CD

Test 24 yr. feeding Phase Test Dose .005% Pb 50 ppm Days { Test 744 / Recovery

Observations:

Weights
Initial 106
Intermediate 350
Final 702
T.I. Missing
Ref. MR-787

Killed KILLED Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition: chromo over right eye, milk packet in right perineal area

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.00			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.69			Epd./Fim.				Adren.	0.116		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.028		
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.72			Es./Stom.	2.35			Bo./B.M.			
Spleen	092			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

5-4-67
MAR
Pathologist Lm Zucker
CSB 5/4/67
Date 5/4/67

Cause of Death:

HISTOPATHOLOGY

5/4/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003867

NECROPSY RECORD

Material Ab Acetate Ho III Excipient —

Animal Rat Strain CR-CD Sex ♀ Age ~~581~~ 629 Days Diet GPLC + 1% CO

Test 2yr Feeding Phase test Dose .05% Ab 500 ppm Days Test 575 Recovery —

H. 4154
No. 69943
MR No. 787

Observations: lying on back, legs crossed, possible pituitary, pallor supplied fur

Weights
Initial 104
Intermediate 321
Final 238
T.I. E Miller
Ref. 787-MR

Killed 12-6-66 KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Thin, dehydrated, pale.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.02			Thym./N.F.	—		
Br./Sp.C.	1.90	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	0.83			Epd./Fim.				Adren.	0.058	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.241		
Lungs	1.28			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	5.85			Es./Stom.	1.60			Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Compressed dorsally - re pituitary mass

2) Bilobed mass, partly vascular

(Majority of organs small)

12-6-66
OM. William C. Krause
Pathologist

Cause of Death:

Date 12-6-66

HISTOPATHOLOGY

PLL
12/21/66

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003868

NECROPSY RECORD

Material Pb Acetate .005% Pb 50 ppm Excipient —

Animal Rat Strain CD-CD Sex ♀ Age 581 Dup Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days Test 547 Recovery

H. 4454
No. C9944
MR No. 782

Observations: none

Weights
Initial 91
Intermediate 390
Final 760
T.I. C. Miller
Ref. MLP-787

Killed 10-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.03			Thym./N.F.	—		
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.31			Epd./Fim.				Adren.	0.070		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023		
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.00			Es./Stom.	2.25			Bo./B.M.			
Spleen	0.85			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

10-19-66
C.M.
Pathologist William C. Krauss
MR
10-19-66 Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

S.P.
10/24/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003869

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 4154
No. 69953
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .005% (50 ppm) Pb GP III Days (Test 93 (Recovery

Observations:

Weights
Initial 91
Intermediate
Final 256
T.I. J. Cancer
Ref. MR 787

KILLED

Killed 7-22-65
Died Method CH Cl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.80			Thym./N.F.	0.50		
Br./Sp.C.	1.80			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.68			Epd./Fim.				Adren.	0.060		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.012		
Lungs	1.07			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.04			Es./Stom.	1.21			Bo./B.M.			
Spleen	0.59			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

(cecum missing - Trimmed MAR 8-10-65)

Cause of Death:

Pathologist William C. Rowe
MAR 7-22-65 Date 7/22/65

HISTOPATHOLOGY

EH 7-23-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003870

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69955-1
MR No. 787

al Rat Strain CBL-CD Sex ♀ Age 406 days Diet GPLC+1% CO

2 year feeding Phase Cat Dose Gp III .005% Pb Days Test 372 Recovery

Weights
Initial 111
Intermediate 404
Final 522

servations:

T.I. E. Miles
Ref. Pb acetate 2yr study

led 4-27-66
ILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

ROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.79			Thym./N.F.	—		
Br./Sp.C.	2.07			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	0.070		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.021		
Lungs	1.70			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.70			Es./Stom.	2.55			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist J.M. Zuicker
JMZ 4-27-66
Date 4-27-66

HISTOPATHOLOGY

S/L
5/28/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003871

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ——

Animal Rat Strain CR-CD Sex F Age 779 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 ppm Days Test 745 Recovery

H. 4154
No. 89960
MR No. 787

Weights
Initial 116
Intermediate 366
Final 532

T.I. E. Miles
Ref. NR 787

Observations:
Continued wt loss from 3/28.
3/14 solid mass posterior to left hind leg 1"
5/5 mass posterior to right forleg 1"
Stained perineal area

Killed 5-5-67
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition Firm palpable mass, lower abdomen, perineal area wet and smeared

GROSS-PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.30	4		Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.75			Epd./Fim.	60.89	5		Adren.	0.130	6	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.029	7	
Lungs	2.00	1		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.90	2		Es./Stom.	2.25			Bo./B.M.			
Spleen	1.00	3		Du./Je./Il.				(Sk)/App.	(R) 2.039 (L) 1.125	8	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Few dull red areas, scattered all lobes.

2) Pale brown, surface irregular, soft.

3) Pale red, very large.

4) Pale brown.

5) Mass right uterine horn extending to cervix - Filled with necrotic material, (7 X 4.5 X 4 Cm)

5-5-67
Pathologist GMZuelch
Date 5.5.67

Cause of Death: Exp

HISTOPATHOLOGY

6) Mottled dark red-brown, large.

7) Bl. Hypertrophic

8) Mass-(mammary type) lower left inguinal group. 3 X 2 X 2 Cm.

5/12/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003872

NECROPSY RECORD

Material Pb Acetate Hgtt .005% Pb Excipient —

Animal Rat Strain CD-CD Sex ♀ Age 581 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days Test 547 Recovery

Observations: none

H. 4454
No. C9961
MR No. 787

Weights
Initial 108
Intermediate 377
Final 542

T.I. E Mehl
Ref. MR-787

Killed 10-19-66
Method KILLED CHCl3 Survival: d h m
P.M. Time
Change
General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.71			Thym./B.F.	—		
Br./Sp.C.	2.11			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.35			Epd./Fim.				Adren.	0.073		
Tr./La./Br.	—			S.V./F.T.				Pit./Pin.	0.024		
Lungs	—			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.70			Es./Stom.	2.40			Bo./B.M.			
Spleen	0.68			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

Cause of Death:

Pathologist William C. Krauss
MHR 10-19-66 Date 10-19-66

HISTOPATHOLOGY

SGJ
10/24/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003873

NECROPSY RECORD

Material Lead Acetate GP III Excipient

H. 4154
No. 69968
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 127 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase Test Dose .005% (50 ppm) DL GP III Days Test 93 Recovery

Observations:

Weights
Initial 110
Intermediate
Final 324

T.I. Joan Carver
Ref. MR-787

KILLED

Killed 7-22-65
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.11			Thym./N.F.	0.62		
Br./Sp.C.	1.89			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.90			Epd./Fim.				Adren.	0.047		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	1.13			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	10.84			Es./Stom.	1.32			Bo./B.M.			
Spleen	0.51			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

C.H.L. William C. Reuss
Pathologist
MR 7-22-65 Date 7-22-65

HISTOPATHOLOGY

Eff 7-23-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003874

NECROPSY RECORD

Material Barcelite 4pm .005% Pb Excipient ———

Animal Rat Strain Chl. CD Sex ♀ Age 581 Days Diet 6PLC+1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 MM Days

Observations: none

H. 4154
No. 69969
MR No. 787
Test 547
Recovery ———

Weights
Initial 113
Intermediate 391
Final 632
T.I. 6 Mths
Ref. MR-787

Killed 10-19-66
Died KILLED Method CHCl3

Survival: d ___ h ___ m ___

P.M. Time ___ Change ___

General Condition Well.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			Thym./N.F.	—		
Br./Sp.C.	2.08			T./Ov.				Thyr./P.T.			
Hr./B.V.	1.28			Epd./Fim.				Adren.	0.088	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.032	(1)	
Lungs	1.39			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.74			Es./Stom.	2.49			Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Pit. slightly enlarged, 3-1mm reddish brown foci.

(2) bilateral brown speckling on surface

Cause of Death:

Pathologist William C. Krause
MR 10-19-66 Date 10-19-66

HISTOPATHOLOGY

GH
10/24/66

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003875

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 69992
MR No. 787

Animal Rat Strain CFE CD Sex F Age 778 Diet GPLC + 1% Ca

Test Rep feeding Phase test Dose .005% Pb 50 100 PPM Days 744 (Test / Recovery)

Observations:

4/8 solid moveable mass anterior portion of hind leg 2" ①
solid moveable mass posterior " left hind leg 2" ①
5/4 mass posterior to rt hind leg 1" ①

Weights
Initial 113
Intermediate 416
Final 730
T.I. E Miller
Ref. MR-787

Killed 5/4/67
Die KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.35			Thym./N.F.			
Br./Sp.C.	2.21			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.85			Epd./Fim.				Adren.	0.131		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024		
Lungs	1.75			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	32.85	①		Es./Stom.	2.60			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.		②	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Pale brown, large swollen, rounded margins prominent lobular markings friable
② @ 28.00 gms (5 X 5 X 1 cm) subcutaneous, firm, lobulated whitish & pinkish white tissue
① 81.06 gms (7.5 Dia X 3 cm) subcutaneous, firm whitish to purplish tissue some mottling
② 5.35 grams (3 cm Dia X 1 cm) subcutaneous, lobulated, firm tannish to pinkish tissue

5-4-67 MR
Pathologist L. M. Zwicker
Date 5/8/67

Cause of Death: Cfg. bms

HISTOPATHOLOGY

5/12/67

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003876

NECROPSY RECORD

Material Pb Acetate Gp III, .005% Pb Excipient ———

H. 4154
No. 70018
MR No. 787

Rat Strain CAR CD Sex F Age 752 Days Diet 6 PLC + 1% CO

2 yr feeding Phase test Dose .005% Pb 50 ppm Days Test 718 Recovery

Weights
Initial 111
Intermediate 254
Final 702 3/28

T.I. E-Miles
Ref. MR 787

rations:
1-31-67 soft movable mass between footpads 1½"
3/28 mass opened & bleeding

FOUND DEAD

4-8-67 Method Survival: d h m P.M. Time ? Change adv.

General Condition as above. Pale rigid cadaver

S PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

rgan	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Abd.				Kidney		3		Thym./N.F.			
.C.				T./Ov.				Thyr./P.T.			
V.		P.M. Chge		Epd./Fim.		P.M. Chge		Adren.		4 P.M. Chge	
/Br.				S.V./F.T.				Pit./Pin.		5	
		1		Pr./Ut.				Sal./Lac.			
				Bl./Ur.				N./M./F.			
G.B.		2		Es./Stom.				Bo./B.M.			
n				Du./Je./Il.				(Sk.)/App.		6	
eas				Ce./Co./Re.				Ey/Ea/No/Mo			

k red throughout - hemorrhages?

k brown

k brown

ottled red brown

k red vascular mass 0.7 Cm dia.

4-10-67
Pathologist G M Zwicker
Date 4-10-67

of Death: 6) Pale brown, lobular mass - right upper pectoral group (mammary type),

OPATHOLOGY

d with carcinoma like material - 5 Cm dia.

RG
4/11/67

Pathologist ———
Date ———

20 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003877

NECROPSY RECORD

Material Pb Acetate Hyd III Excipient —

Animal Rat Strain CRCD Sex ♀ Age 632 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Test Dose .005% Pb 50 ppm Days

H. 4154
No. 70028
MR No. 787

Test 598
Recovery

Observations:
large, rapid weight loss from 11/22

Weights
Initial 96
Intermediate 386
Final
T.I. E. Mile
Ref. MR-787

FOUND DEAD
Killed
Died Method — Survival: d h m P.M. Time 5-10 mn Change none

General Condition Pale cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.32			Thym./N.F.	—		
Br./Sp.C.	2.07	2		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.47			Epd./Fim.				Adren.	0.112	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.121	5	
Lungs	1.48			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.00	3		E./Stom.	2.21			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App. A- 21.30 B- 1.70		(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Mass anterior to r. hind leg; 5 cm x 3 cm x 2 cm; color pale br. to gray; semi-firm consistency.
" B " " " L. " 4 " 1.5 cm " " " " " " " "

2) Base compressed dorsally - ie - pituitary mass

3) Pale, soft, lobular markings prominent

4) Enlarged, light & dark red-brown mottling.

12-9-66 GZ
Pathologist G Zucker
MPR 12-9-66 Date 12-9-66

Cause of Death: 5) Dark red vascular mass 0.5 Gm dia.

HISTOPATHOLOGY

SH
12/21/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003878

NECROPSY RECORD

Material Pb Acetate Hom .005% Wt/Vol Excipient —

H. 4154
No. 70030
MR No. 787

Animal Rat Strain CR-ED Sex ♀ Age 581 Days Diet GR-LA-C 18% CD

Test 2yr-feeding Phase Test Dose .005% Wt/Vol 5 PPM Days Test 547 Recovery

Observations: none

Weights
Initial 108
Intermediate 279
Final 339
T.I. E. Nelson
Ref. NR-787

Killed 10-19-66
Terminated KILLED Method CHCl3 d h m Survival: Change P.M. Time

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.25			Thym./N.F.	—		
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.01			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.031	(1)	
Lungs	1.05			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.55			Es./Stom.	1.60			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pit.; left side of eyes, dark red vascular focus, appx 2mm dia., round

10-19-66
OH
Pathologist William C. Krause

Cause of Death:

MAR 10-19-66 Date 10-19-66

HISTOPATHOLOGY

SA
10/24/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003879

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 70037
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 406 days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Lyo III .005% Pb Days Test 372 Recovery

Observations:

Weights
Initial 105
Intermediate 322
Final 360
T.I. E. Miller
Ref. Pb Acetate 2yr study

Killed 4-27-66
KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.	1.99			Kidney	2.43			Thym./N.F.			
Br./Sp.C.	1.88			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.18			Epd./Fim.				Adren.	0.060		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.033		
Lungs	1.42			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.69			Es./Stom.	1.89			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-27-66 CHL
Pathologist Wm. Zwicker
MAR 4-27-66 Date 4-27-66

Cause of Death:

HISTOPATHOLOGY

4/28/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003880

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ——

Animal Rat Strain CR.OD Sex F Age 778 Diet 6 PLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days

H. 4154
No. 70039
MR No. 787

Test 744
Recovery

Observations:

Sporatic wgt losses of great dimensions

Weights
Initial 110
Intermediate 329
Final 290
T.I. 8 Miles
Ref. IHR-787

Killed 5-4-67
Died KILLED Method CHCl3

Survival: d h m

P.M. Time

Change

General Condition Thin, pale, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.17			Thym./N.F.			
Br./Sp.C.	1.95	①		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.21			Epd./Fim.				Adren.	0.091		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.524	②	
Lungs	1.56			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.30			Es./Stom.	2.05			Bo./B.M.			
Spleen	0.51			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Pale, yellow, base compressed dorsally re-pituitary mass

② Dark, red, lobular, vascular mass (1.3 x 1 x .9 cm)

5-4-67 CSH

Pathologist Geo Zuelch

Cause of Death: CSF Date 5-6-67

HISTOPATHOLOGY

PPP 5/10/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003881

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4454
No. 70057
MR No. 787

Animal Rat Strain CR CD Sex ♀ Age 685 days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50PPM Days Test 657 Recovery

Observations: intermittent weight loss

Weights
Initial 104
Intermediate 354
Final 562 1-17-67

T.I. E. H. Miller
Ref. MR 787

FOUND DEAD

Killed —
Died F.D. 1-31-67 Method —

Survival: d h m

P.M. Time overnight
Change mod. to advanced

General rigid cadaver; fur around nose + mouth
Condition + in perineal region discolored red-brown.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Some Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			✓	Thym./N.F.			
Br./Sp.C.				T./(Ov.)		(2)		Thyr./P.T.			
Ht./(B.V.)			✓	Epd./Fim.				Adren.			✓
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.		(4)	✓
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.		(1)	✓	Es./Stom.				Bo./B.M.			
Spleen			✓	(Du./Je./Il.		(3)	✓	(Sk.) App.		(5)	✓
Pancreas				Ce./Co./Re.				Ey/(Ea)/No/Mo		(6)	

(1) pale tan

(2) left ovary cystic

(4) pit slightly enlarged + spongy in consistency, 1.5 mm dia. red foreign dorsal surface

(5) small 1 cm dia. milk pocket right side perineal region; contained thick cream colored fluid material plus fine white tissue; subcutaneous.

Cause of Death:

Pathologist G. M. Zwicker
Date 1-31-67

HISTOPATHOLOGY

(1) left ovary infarction (mild).

(3) mass in mesentery along duod. and jejunum; weighs 37.30 gms, appx 8 cm long by 4 cm dia., appears to be organized fatty tissue with highly injected blood vessels over entire outer surface; inner portion was hollow + contained muddy red-brown turbid fluid plus cream colored thick semi-fluid material.

8/11
2/2/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003882

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

H. 4154
No. 70059
MR No. 787

nal Rat Strain CbR-UD Sex F Age 776 Days Diet 6 PLC + 1% Co

est 2 yr feeding Phase test Dose .005% Pb 50 PPM Days Test 743 Recovery

Observations: 1/31/67 Solid mass left perineal area 3"

Weights
Initial 98
Intermediate 312
Final 530
T.I. E. Miles
Ref. NR-787

Killed 5-3-67
Died KILLED Method CH Cl3 Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.07			Thym./N.F.			
Br./Sp.C.	2.03			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.105	(3)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020	(4)	
Lungs	1.62	(1)		Pr./Ut.				Sal./Lac.			
L. N.	1.62			Bl./Ur.				N./M./F.			
Liver/G.B.	21.72			Es./Stom.	2.50			Bo./B.M.			
Spleen	1.35	(2)		Du./Je./Il.				Sk./App.	1.85	(5)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Dark, red foci, all lobes .5 to 1.5 mm

(2) Dark, red raised area distal portion (possible rupture, old)

(3) Dark red brown mottling

(4) 2 Dark red foci at eye 1 mm Dia.

(5) Mass, mammary type occupying entire left inguinal group 11 x 7 x 4 cm cream color. Small areas filled with caseous type material

5-3-67 C&H

Cause of Death: CH Ex.m. Pathologist GM Zuckerman Date 5-4-67

HISTOPATHOLOGY

5/12/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003883

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 70063
MR No. 789

Animal Rat Strain CR-CD Sex ♀ Age 406 days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Grp III · 005% Pb Days Test 372 Recovery ———

Observations:
solid mass 1½" diameter, moveable
perineal area – 4/26/ same mass 2½"

Weights
Initial 118
Intermediate 383
Final 492
T.I. E. Miles
Ref. Pb Acetate 2yr already

Killed 4-27-66
Died KILLED Method CH Cl₃ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.18			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.01			T./Ov.				Thyr./P.T.	mic		
(Ht.)/B.V.	1.11			Epd./Fim.				Adren.	0.107	(1)	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.034		
Lungs	1.34			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	21.01			Es./(Stom.)	1.83			Bo./B.M.			
Spleen	0.62			Du./Je./Il.				Sk./Apn (MASS)	93.80		
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) left adrenal partly macular, heavy.

(2) mass located above, mammary type, 8 cm × 5½ cm × 3 cm, firm, color white to red, nodular.

O.H.
Pathologist Dm Zwicker
MR Date 4-27-66
4-27-66

Cause of Death:

HISTOPATHOLOGY

4/28/66

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003884

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

Animal Rat Strain CAR·CD Sex ♀ Age 699 Days Diet GPLC + 1% CO

Test 2yr-feeding Phase Test Dose .005% Pb 30 ppm Days Test 665 Recovery

H. 41574
No. 70065
MR No. 787

Observations:

1-31 solid mass anterior to left hind leg 1" diam.
F. dead 2/14/67

Weights
Initial 113
Intermediate 444
Final 368 471

T.I. Excellent
Ref. MR-787

Killed FOUND DEAD Survival: P.M. Time overnight? General extremely emaciated/rigid cadaver
Died 2-14-67 Method — d h m Change admired Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: some Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(1) ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./(B.V.)				Epd./Fim.				Adren.		(2) ✓	
Tr./La./Br.				S.V./F.T.				(Pit)/Pin.		(3) ✓	
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) enlarged, pale brown, granular, very firm to cut

(2) left adrenal mod. enlarged

(3) pit. mass 1 cm x 0.7 cm x 0.6 cm high, firm to semi-firm, dark red.

2-14-67
MAR
Pathologist GM Zuckes
Date 2-14-67

Cause of Death:

HISTOPATHOLOGY

RR
4/17/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003885

NECROPSY RECORD

Material Pb Acetate GpJL .005% Pb Excipient ——

H. 4454
No. 70071
MR No. 787

Animal Rat Strain CharR-CD Sex F Age 776 Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 742 Recovery

Weights
Initial 103
Intermediate 380
Final 635
T.I. Emiles
Ref. NLR-787

Observations:
12/20 Left moveable mass positive L left flank 1½"
5/2 mass grown to 3"

Killed 5/2/67
Died KILLED Method CHCl3

Survival: d h m

P.M. Time

Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.31			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.112	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.055	(2)	
Lungs	1.90	(3)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.25	(4)		Es./Stom.	2.22			Bo./B.M.			
Spleen	1.20			Du./Je./Il.				Sk./App.	49.70	(5)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Slightly enlarged

(2) Appear enlarged & slightly reddened

(3) 9cm × 7 × 3 cm located as above, subcutaneous, firm, white, to pink white to tan, lobulated tissue

(4) Appear swollen with rounded margins - friable

(5) Several flat (1mm-2mm) irregular gray-green foci on surfaces of lung 5-2-67 MAC

Pathologist GM Zweckert
Date 5/2/67

Cause of Death:

HISTOPATHOLOGY

GMZ 5/17/67

Pathologist ——
Date ——

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003886

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 70079
MR No. 787

Animal Rat Strain CRL-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose H * 4154 0.005% Gr. III Days: Test 197, Recovery

Observations: none

Weights: Initial 121, Intermediate, Final 377

T.I. Eliz. Hulton

Ref. MR. 787

Killed 11-3 Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.39			Thym./N.F.	.40		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.11			Epd./Fim.				Adren.	.073		
Tr./La./Br.	1.49			S.V./F.T.				Pit./Pin.	.014		
Lungs	1.70 bms 11/2/65			Pr./Ut.				Sal./Lac.			
L. N.	12.49			Bl./Ur.				N./M./F.			
Liver/G.B.	1.70 bms 11/3/65			Es./Stom.				Bo./B.M.			
Spleen	.62			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D.

Pathologist G.M. Zwicker
Date 11/3/65

Cause of Death:

HISTOPATHOLOGY

11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003887

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CR.CD Sex ♀ Age 489 days Diet GPLC+1% CO

Test 2 yr. feeding Phase test Dose Dr III .005% Pb 50PPM Days Test 454 Recovery —

Observations: extreme weight loss, palbar ptosis
Moribund 7/19 Sac. in extremis

H. 4454
No. 70087 -89
MR No. 787

Weights
Initial 108
Intermediate 389
Final 288
T.I. E. Mahler
Ref. MR-787

KILLED

Killed 7-19-66
Died —
Method CO2

Survival: d h m

P.M. Time
Change

General Condition As above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.20			Thym./N.F.	—		
Br./Sp.C.	2.01			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.99			Epd./Fim.				Adren.	0.068		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	1.31			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	7.90			Es./Stom.	1.41	1		Bo./B.M.			
Spleen	0.12			Du./Je. (11)		2		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Empty.

2) 7 mm - red brown mass, encapsulated in ileum - 3.5 x 2 cm.

7-19-66
Pathologist William C. Krause
Date 7-19-66

Cause of Death:

HISTOPATHOLOGY

7/20/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003888

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 70090
MR No. 787

Animal Rat Strain CRL-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase Test Dose # 4154 0.005% Days 22 Gr. III

Test 197
Recovery

Observations: none

Weights
Initial 116
Intermediate
Final 302

T.I. Eby-Rutter
Ref. MR-787

Killed 11-3
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.89			Thym./N.F.	.50		
Br./Sp.C.	1.71			T./Ov.				Thyr./P.T.			
Ht./B.V.	.89			Epd./Fim.				Adren.	.037		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.013		
Lungs	1.27			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.44			Es./Stom.				Bo./B.M.			
Spleen	.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

11-3-65
G.M.S.
Pathologist G.M. Zwicker
Date 11/3/65

Cause of Death:

HISTOPATHOLOGY

11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003889

NECROPSY RECORD

Material Control for H# 4154 GPIA Excipient ———

H. 4154
No. 69949
MR No. 787

Animal Rat Strain CRR·CD Sex F Age 775 Diet 6 PLC + 1% CO

Test 2yr feeding Phase test Dose Control GPIA Days Test 741 Recovery

Observations:

intermittent wgt loss
3/14 solid moveable mass between forelegs 1½" mass posterior to rt. hind leg 2" - posterior to rt flank ½", posterior to left hind leg ½"

Weights
Initial 95
Intermediate 329
Final 540

T.I. E Miles
Ref. MR 787

Killed 5/1/67
Died KILLED Method CHCl3 d h m Change

Survival: P.M. Time

General Condition Casalmic

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.60			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.65			Epd./Fim.				Adren.	0.078		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.029		
Lungs	1.80			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.05			Es./Stom.	2.35			Bo./B.M.			
Spleen	.90			Du./Je./Il.				Sk./App.		(A)(B)(C)(D)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(A) mammary type mass 2.5 - 2.5 - 1.5 cm rt lower pectoral area (6.9g)
(B) diffuse mammary type mass rt inguinal area 5-4-2.5 cm (41.3g)
(C) left upper pectoral area - mammary type. 5-4-2cm. (61.5g)
(D) 1.5-2.0-1.0 mammary type located at left inguinal area (5.65g)

5-1-67
Pathologist [signature]
Date 5/1/67

Cause of Death:

HISTOPATHOLOGY

5/11/67

Pathologist ———
Date ———

DUP040003890

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 41154 Gp I A Excipient ———

H. 41154
No. 69818
MR No. 787

Animal Rat Strain CAR·CD Sex F Age 775 Diet GPLC + 1% CO

Test 24 hr feeding Phase test Dose Control Days {Test 741 / Recovery ———

Observations:

11/8/67 Solid moveable mass posterior & left flank 1"
4/18 mass grown to 3"

Weights
Initial 90
Intermediate 335
Final 618
T.I. E Miller
Ref. MR·787

Killed 5-1-67
Died KILLED Method C7+a3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.35			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.		②		Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.100	③	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.044	④	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.80			Es./Stom.	2.30			Bo./B.M.			
Spleen	1.70			Du./Je./Il.				Sk./App.	156.0	① ⑤	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① 12cm x 7cm x 4cm lobular, subcutaneous firm to fluid mass/firm tissue, white pink white fluid, tan to white

② Left ovary – (small) cystic

③ Dark with white pin point speckling

④ Slightly enlarged, soft with 2mm D, dark, red focus on dorsal surface rt. side.

⑤ Right throat area, fluid filled pocket – light tan in color

5-1-67 MRC

Cause of Death:

Pathologist DM Zwicker
Date 5-1-67

HISTOPATHOLOGY

5-19-67

Pathologist ___
Date ___

DUP040003891

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H* 4154 Gp IA Excipient —

Animal Rat Strain CAR CD Sex F Age 762 Diet GPLC + 10% CO

Test 2yr feeding Phase test Dose Control Gp IA Days Test 728 Recovery

H. 4154
No. 69796
MR No. 787

Observations:

Continued wgt loss since 2/14
3/4 2 masses posterior to each of Ut. Variege 1"
4/8 moribund, pallor

KILLED

Weights
Initial 113
Intermediate 382
Final 255
T.I. E.M.Miles
Ref. MR-787

Killed 4-18-67
Died — Method CHCl3 Survival: d — h — m — P.M. Time —

General Condition as above + very thin, dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.54			Thym./N.F.	—		
Br./Sp.C.	1.89	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	0.92			Epd./Fim.				Adren.	0.035		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.344	2	
Lungs	1.36			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.56			Es./Stom.	2.01	4		Bo./B.M.			
Spleen	0.30			Du./Je./Il.				Sk./App. 6-13.04		3	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo 6-12.72			

1) Sl. yellow. Depressed at base - ventrally - sl. pit. mass

2) Dark red vascular mass - 1 Cm dia

3) a) Mass - (mammary Type) filled with caseous like material - right lower pectoral groups - 3 Cm dia

b " " " " " " " " " - left " " " - 2.5 Cm dia

4) Small erosion of squamous mucosa, near junction zone

4-18-67
GSH.
Pathologist L.M. Zwicker
Date 4-18-67

Cause of Death:

HISTOPATHOLOGY

RLL
4/19/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003892

NECROPSY RECORD

Material: Control for H*4154 Pb Acetate Gp I A Excipient: ——

H. 4154
No. 70042
MR No. 787

Animal: Rat Strain: CAR-CD Sex: ♀ Age: 742 Days Diet: 6PLC + 1% CO

Test: 2yr feeding Phase: Test Dose: Control Days: Test 708, Recovery ——

Observations:
8-16 hard moveable mass anterior to left hind leg 1"
3-28 mass grown to 4" necrotic surface open
mass between pads 1" - impaired mobility

Weights: Initial 101, Intermediate 371, Final 761

T.I. E Miles
Ref. NR 787

Killed: 3-29-67
Died: KILLED Method: $CHCl_3$ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition: as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.05			Thym./N.F.	—		
Br./Sp.C.	2.20	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.90			Epd./Fim.				Adren.	0.201	3	R-.158 L-.043
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.211	4	
Lungs	1.74			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.70			Es./Stom.	2.46			Bo./B.M.			
Spleen	1.34	2		Du./Je./Il.				(Sk.)/App.	@ 20.70	5	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	L-320.75		

1) Base compressed dorsally - re pituitary mass

2) Large, dark red.

3) Right - large, dark red.

4) Vascular mass - 0.9 x 0.7 x 0.4 Cm.

5)(a) Mass - firm, grey-white - anterior to right fore limb - (mammary type) 3.75 Cm. dia.

3-29-67
C.M.
Pathologist J.M. Zwicker

Cause of Death: (b) Mass - semi-firm, grey-brown-white, partly necrotic, containing bone Date 3-29-67

HISTOPATHOLOGY

Caseous like material. (entire left inguinal group) 13 X 11 X 5 Cm.

9/11
3/30/67

Pathologist ___
Date ___

DUP040003893

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for Pb Acilate GP IA Excipient —

IA
H. 4154
No. 69971
MR No. 787

Animal Rat Strain CR·CD Sex ♂ Male Age 698 Days Diet GDLC + 1% CO

Test 2 yr. feeding Phase Test Dose Control Days Test 664 Recovery

Observations: None

Weights
Initial 76
Intermediate 328
Final 642 1-31

T.I. E. N. Miller
Ref. MR·787

FOUND DEAD

Filed — Survival: P.M. Time weekend General rigid to flaccid cadaver; formalin
Died F.D. delivered 2-13-67 Method — d h m Change advanced Condition stained/encrusted brown color.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Some Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney			✓	Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.		✓	
Tr./La./Br.				S.V./F.T.				(Pit./Pin.		✓	
Lungs		(1) ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.		(2) ✓		Es./Stom.				Bo./B.M.			
Spleen		(3) ✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple raised, circular, opaque, white, 1.0mm to 1.5 mm dia., foci on all surfaces all lobes

(2) enlargement (mass) of liver approx. 6 cm x 3.5 cm surrounding + adhering to stomach, portion of duodenum + other liver lobes; all lobes yellowish brown with irregular dark red-brown splotches on surface (some of splotched areas were slightly raised), swollen with rounded margins, friable.

(3) spleen enlarged, swollen with rounded margins.

2-13-67 MK Pathologist ~~J M Ricker~~

Cause of Death: Date 2/13/67

HISTOPATHOLOGY

2/13/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003894

NECROPSY RECORD

Material Control for H# 4154 Pb Acetate Gp IA Excipient

H. 4154
No. 69982.
MR No. 787.

Animal Rat Strain CDR-ED Sex F Age 728 Days Diet GPLC + 1% CD

Test 2yr feeding Phase Test Dose Control Days Test 694 Recovery

Weights
Initial 121
Intermediate 324
Final 862

T.I. E. Mules
Ref. NR 787

Observations: 5/30/66 Lard moveable mass 1" diam. posterior to right hind leg
12/20/66 grown to 3" necrotic surface
6/17/67 mass grown to 5"
KILLED 3/15/67 Mass opened & bleeding

Killed 3-15-67
Died Method CHCl3 d h m

Survival: P.M. Time
Change

General Condition as above + extra mass

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40	2		Thym./N.F.	—		
Br./Sp.C.	2.01			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.38			Epd./Fim.				Adren.	0.100	3	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.018		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	34.50	1		Es./Stom.	1.81			Bo./B.M.			
Spleen	1.28			Du./Je./Il.				Sk./App.	G-36.25	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	L-448.30		

1) Large, pale brown.

2) Hydronephrose, right.

3) Large, pale brown.

4) Mass - (a) involving lower right pectoral group. Semi firm - pale white & brown. 5X4X2.5 Cm.

(b) " entire right inguinal group. Firm, red brown, nodular & partly necrotic. 14.5X9X6 Cm.

3-15-67
CHH
Pathologist Gm Zuckes
Date 3-15-67

Cause of Death: (Mammary type)

HISTOPATHOLOGY

3/16/67

Pathologist
Date

DUP040003895

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Gp IA Control Excipient ———

IA
H. 41154
No. 69918
MR No. 787

Animal Rat Strain CR:CD Sex F Age 700 Diet 6PLC+1% CO

Test 2yr. feeding Phase test days Dose Control Days {Test 666 / Recovery ———

Observations: 11-4 possibility of otis media
11-8 Solid moveable mass 3" posterior to right forelimb
1-17-67 mass grown to 5"

Weights
Initial 104
Intermediate 330
Final 852
T.I. E M Miller
Ref. MR-787

KILLED

Killed 2-15-67
Died ——— Method CHCl3 Survival: d ——— h ——— m ——— P.M. Time ———

General Condition as about.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.34			Thym./N.F.	—		
Br./Sp.C.	2.01			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.72			Epd./Flm.				Adren.	0.130	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026	3	
Lungs	1.98	1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.20			Es./Stom.	2.47			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.	497.55	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Bright red foci - scattered all lobes 0.5-2mm dia.

2) Large - mottled, dark red-brown.

3) M. large - Dark focus (red) anterior portion.

4) Large, firm, nodular, partly necrotic mass - posterior to right foreleg. 14.5 x 11 x 6 Cm. (mammary-type)

2-15-67
Pathologist G M Zuercher
Date 2-15-67

Cause of Death:

HISTOPATHOLOGY

2/11
2/11/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003896

NECROPSY RECORD

Material Group IA Pb Acetate Control Excipient ———

IA
H. 4154
No. 69778
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 681 days Diet GPLC+1% CO

Test 2 yr. feeding Phase Test Dose Control Days Test 647 Recovery ———

Observations: 12/20 multiple masses - ventral surface
not eating or drinking
pallor
Continuous wt loss from 10/11/66

Weights
Initial 106
Intermediate 572
Final 392
T.I. E. Niles
Ref. MR-787

KILLED

Killed 1-27-67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ———
Change ———

General Condition Thin, pale & malaise.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.20	3		Thym./N.F.	—		
Br./Sp.C.	2.18	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.14			Epd./Fim.				Adren.	0.089	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.394	5	
Lungs	1.98	2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.57			Es./Stom.	3.02			Bo./B.M.			
Spleen	0.39			Du./Je./Il.				(Sk)/App.	a-18.38	6	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	b-29.15 c-20.43		

1) Ventral surface - depressed dorsally - at pituitary mass - pale, soft.

2) Scattered red foci.

3) Sl. pale.

4) Right - larger & dark.

5) Semi-firm, flesh-like mass 1.2 X 0.9 X 0.6 Cm.

1-27-67
C.H.

Cause of Death: 6) a- mammary Type - carcinosarcoma intraductal - 4.5X3X2 Cm - Post - at fourth lg.

Pathologist William C. Yeager
Date 1-27-67

HISTOPATHOLOGY

b- " " - " " 5X3X2 Cm - Ant. at. Fourth lg.

c- " " - " " 5X3.5X2 Cm - Post - left fourth lg.

CH
4/30/67

Pathologist ———
Date ———

DUP040003897

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material: Control Pen H*4154 10 acetate GpIA Excipient: —

GPIA

H. 4154
No. 69854
MR No. 787

Animal: Rat Strain: Hll.Cl Sex: ♀ Age: 677 Days Diet: GPLC + 1% CO

Test: 2yr. feeding Phase: Test Dose: Control Days: Test 643, Recovery —

Observations: 8/9/66 sRin came off tail

12/20 solid mass perineal area 3" diam.

FOUND DEAD — Continuous wgt loss since 12/20/66

Weights: Initial 115; Intermediate 475; Final 420 1-17

T.I. E. Miller

Ref. NIR-787

Killed —

Died ED. 1-23-67 Method —

Survival: d — h — m —

P.M. Time overnight?

Change advanced

General Condition: rigid cadaver, mat much fat present; some hair loss in perineal region

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Some Yes ✓ No —
Histology Follows: — Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.	0.315	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.184	(5)	
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.		(3)		Bo./B.M.			
Spleen		(1)		Du./Je./Il.				Sk./App.		(6)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) very small

(2) both moderately dark brown, granular externally & internally

(3) several crater-like areas of erosion in sq. mucosa, one single mucosa adjacent to junction gms (1mm to 3mm dia,

(4) left adrenal enlarged (0.234 gms) and misshapen (effaces lobules), color ranges from tan to light red-brown, firm; right adrenal (0.081 gms) dark red-brown with pale 0.5mm dia speckling

1-23-67 MKC

Pathologist: William C. Kraemer

Cause of Death:

Date: 1-23-67

HISTOPATHOLOGY

(5) pit mass 1cm × 0.8cm × 0.65cm high; anterior 1/3 vascular, dark red-brown, posterior 2/3 light red-brown, semi-firm.

(6) multiple milk packets in perineal region & along left line; subcutaneous, lobulated, white to gray-pink firm tissue plus cream colored to dark, muddy brown liquid to paste-like material.

1/24/67

Pathologist —

Date —

DUP040003898

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control Lot # 4154 PO Acetate 4p EA Excipient ——

H: 4154
No. 69935
MR No. 787

Animal Rat Strain CDR-CD Sex ♀ Age 672 Days Diet 6% C + 1% CO

Test 2 yr. feeding Phase Test Dose Control Days Test 638 Recovery

Observations:

12-20-66 solid mass anterior to rt hind leg 1" diam
" mass rt. perineal area 2½" "
1-17-67 multiple mass one located anterior to rt hind leg 3" open and bleeding

KILLED

Weights
Initial 79
Intermediate 402
Final 942
T.I. E. Miller
Ref. MR-787

Killed 1-18-67
Died ——— Method CHCl₃ d ___ h ___ m ___ Change ———

Survival: P.M. Time ———

General Condition: mass on dorsum plus two more on left side; obese animal.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.08			(Thym.)/N.F.	0.65	(2)	
(Brn.)/Sp.C.	1.85			(Prov.)	—	(5)		Thyr./P.T.			
(Ht.)/B.V.	1.70			Epd./Fim.				Adren.	0.097		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.039	(3)	
Lungs	—			Pr./Ut.				Sal./Lac.			
~~LN~~				Bl./Ur.				N./M./F.			
(Liver)/G.B.	33.00	(1)		Es./(Stom.)	2.80			Bo./B.M.			
Spleen	1.50			Du./Je./Il.				(Sk.)/App.		(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) liver enlarged, rounded margins, pale with prominent lobular markings, friable.

(2) partially atrophied

(3) pit. slightly enlarged + spongy; 15 mm dark red focus on dorsal surface of right side.

(4) five masses in posterior half of animal (in flanks + ventral surface, perineal region); size ranges 3cm × 2cm × 1.5cm to 10cm × 7cm × 4cm; consisted of solid tissue (white to grey to red-brown) MR 1-18-67

Pathologist J.M. Zweickel

~~Cause of Death:~~

Date 1-18-67

HISTOPATHOLOGY

white thick fluid (milk products) and muddy brown very thick fluid material.

(5) both ovaries were reddened

(No lung sections at trimming C.W.H 2-22-67)

2/1

1/20/67

Pathologist ———

Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003899

NECROPSY RECORD

Material Control for H# 4154 Pb acetate GPTA Excipient ——

H. 4154
No. 70022
MR No. 787

Animal Rat Strain CRCD Sex ♀ Age 672 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Test Dose Control Days {Test 638 / Recovery

Observations:
10-25-66 solid movable mass 3" left perineal area
1-17-66 mass grown to 5"
1-18-66 " open and bleeding

Weights
Initial 99
Intermediate 413
Final 925

T.I. E. Mules
Ref. NRP-787

KILLED

Killed 1-18-67
Died ——— Method CO2 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition Moribund.

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50	3		Thym./N.F.	—		
Br./Sp.C.	2.11			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.57			Epd./Fim.				Adren.	0.089	4	1
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026	5	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	27.70	1	3	Es./Stom.	2.04			Bo.(B.M.)			5
Spleen	1.61	2	4	Du./Je./Il.				Sk./App.	298.40	6	2
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale, edges rounded; lobular markings prominent.
2) Large & dark.
3) M. pale.
4) Dark red brown.
5) M. Lung.

1-18-67 GM
Pathologist J. M. Zwickis
Date 1-18-67

Cause of Death: 6) Semi firm, lobular, white - dark red, partly necrotic mass left perineal area.

HISTOPATHOLOGY 13 x 11 x 4.5 Cm

1. cortex focal sinusoidal dilatation +++, focal fatty change +
2. Mammary fibroma with tubular hyperplasia & acanthosis
3. Fatty change ++ some fatty cysts +
4. Hyperplasia ++
5. Hypoplasia ++

SH 1/20/67

Pathologist SH
Date 1-20-67

DUP040003900

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Control IA Excipient ———

H. C(4154)
No. 69965
MR No. 787

Animal Rat Strain ARR-CD Sex ♀ Age ~~58~~ Days Diet CRLC + 1% CO

Test 2yr. feeding Phase test Dose Control Days { Test 624 / Recovery ———

Observations: 1/3 mucoid diarrhea, stained perineal area soft odor

Weights
Initial 119
Intermediate 415
Final 745 1/4
T.I. E. Mile
Ref. NR-787

Killed FOUND DEAD
Died F.D. 1-5-67 Method —

Survival: d ___ h ___ m ___

P.M. Time overnight
Change advanced

General extremely obese (much internal and subcutaneous fat); flaccid cadaver;
Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___ on above plus
Tissue Saved: Yes ✓ No ___ tumor around both eyes
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(3) ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			✓
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.272	(5) ✓	
Lungs	advanced P.M. change	(1) ✓		Pr./Ut.	advanced P.M. change			Sal./Lac.			advanced P.M. change
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(2) ✓		Es./(Stom.)		(4) ✓		Bo./B.M.			
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) all lobes predominantly dark red, small amount of lighter red mottling.

(2) smaller, pale with prominent lobular markings, cut surface friable.

(3) pale, somewhat granular.

(4) some erosion in glandular & squamous mucosa (stomach had moderate amount of red-brown fluid fluid)

(5) pit. mass 8 mm × 4 mm × 5 mm high, semi-firm, light red-brown to dark red color.

1-5-67 MR
Pathologist J M Zurcher
Date 1-5-67

Cause of Death:

HISTOPATHOLOGY

RH
1/9/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003901

NECROPSY RECORD

GpIA Material Control Excipient

H. 4154
No. 70061
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 645 d Diet GPLC+1% C.O.

Test 2 yr. feeding Phase Test Dose GpIA control Days Test 611 Recovery

Observations: Weight losses since 9/66

Mass anterior to left forelegs

FOUND DEAD Based on paper 12/22/66

Weights
Initial 105 (4.20.66)
Intermediate 732 (9-13-6
~~Final~~ 530 (12.20)
T.I. Ea. Miles (2m)
Ref. MC 787-24p feeding

Killed
Died 12-22-66 Method
Survival: d h m
P.M. Time ½ hr
Change v. sl.
General Condition as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.			
Br./Sp.C.		1		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.		4	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.		5	
Lungs		2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				(Sk.)/App.		6	
Pancreas				Ce./Co./Re.				(Ey)/Ea/No/Mo		7	

1) Pale yellow & soft.

2) Irregular congestion

3) M. pale & granular

4) Dark brown & sl. large.

5) Hypertrophic, dark red focus, anterior pituitary.

Cause of Death: 6) Diffuse milky pockets.

12-22-66
Pathologist William C. Krauss
Date 12-22-66

HISTOPATHOLOGY

7) Bilateral corneal opacity

12/27/66

Pathologist
Date

DUP040003902

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

GpIA

Material Pb Acetate Control Excipient —

(c) H. 4454 No. 69914 MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age ~~598~~ 632 Dup Diet ~~stock~~ GPLC+19,CD

Test Dyn. feeding Phase test Dose Control Days Test 598 Recovery

Observations:

12/9 blood appears to be coming from vagina same for a few days

Weights: Initial 119 Intermediate 313 Final 598

T.I. E Miller Ref. MR-787

Killed 12-9-66 Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition as above; animal sluggish + obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.		(1)		Kidney	3.75	(3)		Thym./N.F.	—	(5)	
Br./Sp.C.	1.85	(1)		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.74			Epd./Fim.				Adren.	0.092	(6)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019	(6)	
Lungs	1.50			Pr./Ut.		(4)		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.48	(2)		Es./Stom.	2.30			Bo./B.M.			
Spleen	1.55			Du./Je./Il.				Sk./App. mass	2.95	(7)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) organs in general were pale

(2) liver pale brown, swollen, rounded margins.

(3) pale brown, slightly cystic

(4) main body of uterus was swollen, discolored red-brown with ejaculate of blood + brownish material (infection?)

(5) atrophied

12-9-66 MAR

Pathologist G Zwicker

Cause of Death:

Date 12-9-66

HISTOPATHOLOGY

(6) adrenals were dark with some light speckling

(7) small mass 1.5cm dia, located ventral to left forleg; subcutaneous, very firm, white, lobulated tissue.

12/21/66

Pathologist

Date

DUP040003903

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Control Vehicle Excipient —

(c)
H. 4154
No. 70036
MR No. 787

Animal Rat Strain CFE-CD Sex ♀ Age 603 Days Diet 6PLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days { Test 569 / Recovery

Observations:
extreme weight loss from 11/4
pallor - moribund 11/10/66

Weights
Initial 105
Intermediate 335
Final 340

T.I. E. Miller
Ref. MR-787

Killed 11-10-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition emaciated - uncoordinated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40		1	Thym./N.F.	—		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.02			Epd./Fim.				Adren.	.096	2.	3
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.237	1.	4
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.60	3.	2	Es./Stom.	1.72			Bo./B.M.			
Spleen	.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. blood filled mass, 2×3×5 mm
2. dark color, ringed with white and brown firm focal foci
3. prominent lobular markings

(all lung tissue missing - trim 12-30-66 MK)

Pathologist William C. Krauss
Date 11-10-66

Cause of Death:

HISTOPATHOLOGY

1. fatty change ++
2. fatty change ++
3. focal fatty change ++
4. adenoma

EEP
11/11/66

Pathologist [illegible]
Date 6-7-67

DUP040003904

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material: Lead Acetate 4% IA Excipient: ———

H. 4154
No. 69913
MR No. 787

Animal: Rat Strain: CR-CD Sex: F Age: 603 Days Diet: GPLC+10% CO

Test: 2yr - feeding Phase: Test Dose: Control Days: Test 569, Recovery ———

Observations: weight loss since 8/30/66
partial ptosis 10/11/66

Weights: Initial 105, Intermediate 412, Final 288
T.I. E. Miller
Ref. MR-787

Killed: 11-10-66
Died: KILLED Method: CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition: Emaciated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40		1	Thym./N.F.			
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./(B.V.)	.99	2.		Epd./Fim.				Adren.	.102		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.369	1.	
Lungs	1.32			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	7.10			Es./(Stom.)	1.80			Bo./B.M.			
Spleen	.42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1.6 mm x 7 mm x 5 mm firm red brown mass encroaching on the brain.

3. Stiff +

Pathologist: William C. Krauss
Date: 11-10-66

Cause of Death:

HISTOPATHOLOGY

[illegible]

11/11/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003905

NECROPSY RECORD

Material Pb Acetate 4yr I+A Control Excipient

Animal Rat Strain CR.CD Sex ♀ Age 582 Days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose Control Days Test 548 Recovery

H. 4454
No. 70043
MR No. 787

Observations: none

Weights
Initial 100
Intermediate 302
Final 377
T.I. E. Miller
Ref. MR-787

Killed 10-20-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.12			Thym./N.F.			
Br./Sp.C.	1.98			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.01			Epd./Flm.				Adren.	.056		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.028		
Lungs	1.42			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	10.62	1.		Es./Stom.	1.42			Bo./B.M.			
Spleen	.55			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Cystic lobe - block focus 2 mm in diameter

10-20-66
Pathologist William E. Krause ✓
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

SBP
10/24/66

Pathologist
Date

DUP040003906

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate, Gp IA Control Excipient ———

H. 4454
No. 67877
MR No. 787

Animal Rat Strain CBR-CD Sex ♀ Age 552 Days Diet GPLC + 10% DO

Test 2yr feeding Phase test Dose Control Days {Test 548 / Recovery ———

Observations: none

Weights
Initial 108
Intermediate 365
Final 490
T.I. E. Miller
Ref. MR-787

Killed 10-20-66
Died KILLED Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition As noted for mass below

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes X No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.10			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.34			Epd./Fim.				Adren.	.088		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.035	2.	
Lungs	1.67			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.52			Es./Stom.	2.25			Bo./B.M.			
Spleen	.70			Du./Je./Il.				(Sk.)/App.	9.22	1.	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 1.4 x 3 x 1½ pale brown semi firm mass in right femoral area.
2. One pinpoint red focus adjoining the pea mass.

10-20-66
C.H.

Pathologist William C. Krauss
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

DUP040003907

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

CHRONIC FEEDING
NECROPSY RECORD

Material Pb Acetate Hyt A Control Excipient ———

H. 4154
No. 69985
MR No. 787

Animal Rat Strain CFR.CD Sex ♀ Age 582 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days Test 548 Recovery ———

Observations: none

Weights
Initial 104
Intermediate 365
Final 500
T.I. E. Miller
Ref. MR-787

Killed 10-20-66
Died KILLED Method CH Cl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition NAP

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.75			Thym./N.F.			
Br./Sp.C.	2.18			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	.086		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.023		
Lungs	1.48			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.1	1.		Es./Stom.	1.80			Bo./B.M.			
Spleen	~~7.9~~	0.72 WNL (CHG)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Brown. black focus surrounded by a brown pale tan halo.

10-20-66 WNL
Pathologist William C. Krantz
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

WNL
10/24/66

Pathologist ———
Date ———

DUP040003908

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate 4pt Control Excipient ———

H. 4154
No. 69921
MR No. 187

Animal Rat Strain CFE-W Sex ♀ Age 582 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days {Test 548 / Recovery ———

Observations: none

Weights
Initial 70
Intermediate 381
Final 702
T.I. E. Kelley
Ref. MR-187

Killed 10-20-66
Died ——— Method CH Cl3 (KILLED) Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.80			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.35			Epd./Fim.				Adren.	.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.018		
Lungs	1.49			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.68	1		Es./Stom.	2.10			Bo./B.M.			
Spleen	.82			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Pale, prominent lobular markings

10-20-66
Pathologist William C. Krause
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

DUP040003909

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Gp IA Control Excipient ———

H. 4454
No. 69889
MR No. 787

Animal Rat Strain Chr-CD Sex ♀ Age 582 Days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose ——— Days {Test 548 / Recovery ———

Observations: 3/1/66 palid moveable mass posterior to right foreleg ½" diameter 8/30/66 solid moveable mass 2" diameter posterior to left foreleg

Weights
Initial 100
Intermediate 386
Final 661
T.I. E. Miles
Ref. MR-787

Killed 10-20-66
Died KILLED Method $CHCl_3$ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition As Noted below

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.1			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.41			Epd./Fim.				Adren.	.108		
Tr./La./Br.	—			S.V./F.T.				Pit./Pin.	.021		
Lungs	1.18			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.31	3.		Es./Stom.	2.35			Bo./B.M.	Mass 1.	29.65	
Spleen	.91			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo	Mass 2.	17.00	

New 1. 7½ x 3½ x ½ cm soft hollow semi firm mass filled with creamy yellow liquid. right inguinal area

Mass 2. 8X6X3 semi firm lobulated mass - right axillary area.

3. Prominent lobular markings. V

10-20-66
Pathologist MRQ William E. Travis
Date 10-20-66

Cause of Death:

HISTOPATHOLOGY

99
10/25/66

Pathologist ———
Date ———

DUP040003910

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material B Acetate Hyd A Control Excipient —

H. 4454
No. 70068
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 582 Days Diet 6LC+1% CO

Test 2yr. feeding Phase Test Dose Control Days Test 548 Recovery —

Observations: None

Weights
Initial 85
Intermediate 389
Final 440
T.I. Ed. Miller
Ref. MR-787

Killed 10-20-66
Died KILLED Method $CHCl_3$ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	~~2.60~~	1.30		Epd./Fim.				Adren.	.070		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.018	1.	
Lungs	~~2.60~~	1.30		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.90	2.		Es./Stom.	1.73			Bo./B.M.			
Spleen	1.62			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Immed fossa on left side.
2. Prominent lobular markings

10-20-66
C.H.
Pathologist William C. Krause

Cause-of-Death: Date 10-20-66

HISTOPATHOLOGY

CH
10/24/66

Pathologist ___
Date ___

DUP040003911

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H 4154 GpIA #4 Excipient —

H. 4154
No. 69872
MR No. 787

Animal RAT Strain Ch RCD Sex ♀ Age 531 days Diet G/LC + 10% C.O.

Test 2-YR FEEDING Phase TEST Dose CONTROL Days Test 496 days Recovery

Observations:

Weights
Initial 108
Intermediate 432 (8.12)
Final

T.I. E.N. MILES
Ref. MR. 787

FOUND DEAD

Killed 6 11:00 AM
Died F.D. 8.30.66 Method

Survival: d h m

P.M. Time overnight
Change accr.

General Condition Flaccid cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.				T./(Ov.)		✓		(Thyr.)/P.T.		✓	
Ht./B.V.		P.M. Change		Epd./Fim.		P.M. Change		Adren.		P.M. Change	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.		2 ✓	
Lungs		1 ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				(Bo.)/B.M.			
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red throughout

2) Mass - flesh-like · 0.5 Cm dia ·

(✓) tissues saved

8-30-66
OSH.
Pathologist Gary M. Zuckerman
Date 8-30-66

Cause of Death:

HISTOPATHOLOGY

8/30/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003912

NECROPSY RECORD

Material Control Group Ia Lead Acetate Excipient ———

C
H. (4154)
No. 69983
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 398 days Diet GPLC + 1% CO

Test 2yr. Feeding Study Phase Test Dose Control .00% Pb Days { Test 364 / Recovery ———

Observations: none

Weights
Initial 113
Intermediate 389
Final 480
T.I. E. Miles
Ref. Pb Acetate 2yr. Study

FOUND DEAD

Killed ———
Died 4-19-66 Method ———
Survival: d ——— h ——— m ———
P.M. Time ?
Change sl.
General Condition Placed cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		2	
Lungs	3.40	1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pulmonary, dark red streaks throughout (Hemorrhage?), wet, heavy.

2) Mass, vascular. 0.7 X 0.5 X 4 Cm.

✓

4-19-66
Pathologist William C. Krauss
Date 4-19-66

Cause of Death:

HISTOPATHOLOGY

911
4-20-66

Pathologist ———
Date ———

DUP040003913

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 70084'
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 407 days Diet GPLC+1% CO

Test 2yr. feeding Phase test Dose 1% Control Ia Days Test 373 Recovery ———

Observations:

Weights
Initial 110
Intermediate 380
Final 510
T.I. E. Miller
Ref. Pb Acetate 2yr Study

KILLED

Killed ———
Died 4/28/66 Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition small mass poster, or to rt. forelimb

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.2			Es./Stom.	2.30			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./Appl	2.10	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Small mass; cream color, cut surface, firm.

(No eye - on trimming. O.H. 5-24-66)

Cause of Death:

Pathologist Jm Zwicker
Date 4/28/66

HISTOPATHOLOGY

JLL
4/29/66

Pathologist ———
Date ———

DUP040003914

ER-8420 · WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Hp TA Excipient —

H. 4154
No. 70100'
MR No. 787

Animal ____ Strain ____ Sex ____ Age 329 days Diet GPLC + 1% CO

Test 2 year feeding Study Phase Test Dose Control for H 4154 Days {Test 294 / Recovery ____

Observations: Continuous weight loss

9

Weights
Initial ~~131~~ 105
Intermediate 603
Final 355
T.I. Eliz. N. Miles
Ref. 2 yr. feeding Study Pb acetate

KILLED

Killed 2-9-64 Survival: P.M. Time ____ General Chromodacryorrhea - eyes & Nos.
Died ____ Method $CHCl_3$ d ____ h ____ m ____ Change ____ Condition Pale, dehydrated. Perianal area smeared.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ____ No ____
Tissue Saved: Yes ✓ No ____
Histology Follows: Yes ____ No ____

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.07			Thym./N.F.	—	4	
Br./Sp.C.	1.89	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.00			Epd./Fim.				Adren.	0.056		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.330	5	
Lungs	1.20			Pr./Ut.				Sal./Lac.			
L. N.				BL/Ur.				N./M./F.			
Liver/G.B.	7.69	2		Es./Stom.	1.69	3		Bo./B.M.			
Spleen	0.39			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Depressed at base - re - pituitary mass.

2) Small - As expected for an animal w continuous weight loss.

3) Almost empty.

4) Atrophy.

5) Large mass - vascular - 1.2 X 0.8 X 0.8 Cm.

2-9-64
C.H.L. Pathologist N. Wm C. Rowe
Date 2-9-66

Cause of Death:

HISTOPATHOLOGY

E.H.L.
2-9-66

Pathologist ____
Date ____

DUP040003915

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Excipient —

H: 41534
No. 69862
MR No. 787

Animal Rat Strain CBL-CO Sex ♀ Age 407 days Diet with GPLC + 1% CO

Test 2yr. feeding Phase test Dose Control Days Test 373 Recovery —

Observations:

KILLED

Weights
Initial 103
Intermediate 385
Final 450
T.I. E. Miller
Ref. Pb Acetate 2 yr study

Killed —
Died 4/28/66 Method CHCl3 Survival: d h m P.M. Time — Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.F.			
Br./Sp.C.	2.11			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.15			Epd./Fim.				Adren.	.064		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.020		
Lungs	1.59			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.25	(1)		Es./Stom.	1.87			Bo./B.M.			
Spleen	.69			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Small dark focus on lat lateral lobe ½ dorsal surface

4-28-66 GHZ. Pathologist Lin Zwicker
Cause of Death: Date 4/28/66

HISTOPATHOLOGY

9/1
4/29/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003916

NECROPSY RECORD

Material: Lead Acetate Excipient: ———

H. 41541
No. 69790'
MR No. 787

Animal: Rat Strain: CRL-CD Sex: ♀ Age: 406 days Diet: GPLC + 1% CO with

Test: 2yr. feeding Phase: test Dose: Control Fa Days: Test 373, Recovery ———

Observations:

KILLED

Weights
Initial 103
Intermediate 351
Final 422
T.I. [illegible]
Ref. Pb Acetate 2yr study

Killed ———
Died 4/28/66 Method: CHCl3 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition: NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.45			Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.1			Epd./Fim.				Adren.	.053		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.017		
Lungs	1.14			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.90			Es./Stom.	1.50			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

✓

4-28-66
GMZ
Pathologist: G M Zuicker
Date: 4/28/66

Cause of Death:

HISTOPATHOLOGY

GMZ
4/29/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO. PINK—TOXICOLOGY, GROSS

DUP040003917

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 69979
MR No. 787

Animal Rat Strain CLP-CD Sex ♀ Age 407 days Diet GPLC + 1% CO

Test 2yp feeding Phase test Dose Control Wp. TA Days Test 373 Recovery

Observations:

Weights
Initial 110
Intermediate 353
Final 476
T.I. E. Miller
Ref. Pb Acetate 2yp Study

Killed KILLED
Died 4/27/66 Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.26			Thym./N.F.			
Br./Sp.C.	1.85			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren. ①	.092	①	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.34			Es./Stom.	1.90			Bo./B.M.			
Spleen	0.54			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① ADRENAL - enlarged (both) discolored - red brown

(One kidney only - at trimming - Q.B. 5-2466

Pathologist L.M. Zwicker
Cause of Death: Date 4/28/66

HISTOPATHOLOGY

S.H. 4/29/66

Pathologist
Date

DUP040003918

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4164
No. 69805
MR No. 787

Animal Rat Strain CFE-CD Sex ♀ Age 407 days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose 1% Control IA Days Test 373 Recovery —

Observations:

KILLED

Weights
Initial 100
Intermediate 285
Final 290
T.I. E. Miller
Ref. Pb Acetate 2 yr. Study

Killed 4/28/66
Died — Method CHCl3 d — h — m — Change —

Survival: P.M. Time —

General Condition Thin NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.31			Thym./N.F.			
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	.92			Epd./Fim.				Adren.	.067		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.018		
Lungs	.70			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.41			Es./Stom.	1.45			Bo./B.M.			
Spleen	.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-28-66
O.H.
Pathologist D.M. Zuricker

Cause of Death: Date 4/28/66

HISTOPATHOLOGY

S-H
4/29/66

Pathologist —
Date —

DUP040003919

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H # 4154 Excipient

H. 4154
No. 69930
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 3/17/65 B.D. Diet GPLC + 1% C.O.

Test 2 yr. feeding Study Phase test Dose Control gp. Ia Days Test 196 Recovery

Observations: none

Weights
Initial 108
Intermediate
Final 471

T.I. Eliz. Miller
Ref. MR-787

Killed 11-2-65
Died KILLED Method CHCl₃ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes X No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.37			Thym./N.F.	.80		
Br./Sp.C.	1.80			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren.	.059		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.24			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.95			Es./Stom.				Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist G. M. Zurcher
MR 11-2-65
Date 11-2-65

HISTOPATHOLOGY

gff
11-3-65

Pathologist
Date

DUP040003920

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H #4154 Excipient

H. 4154
No. 69780
MR No. 787

Animal Rat Strain CHR-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose Control gr. Ia. Days Test 196 Recovery

Observations: None

Weights
Initial 106
Intermediate
Final 329
T.I. Elz. Miller
Ref. MR-787

Killed 11-2-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.39			(Thym.)/N.F.	.40		
(Br.)/Sp.C.	1.89			T./Ov.				Thyr./P.T.			
(Ht.)/S.V.	1.00			Epd./Fim.				Adren.	.065		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.027		
Lungs	1.17			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	10.65			Es./Stom.				Bo./B.M.			
Spleen	.61			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Cause of Death:

Pathologist GM Zucker
MAR 11-2-65 Date 11/2/65

HISTOPATHOLOGY

Pathologist
Date

DUP040003921

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H # 4154 Excipient

H. 4154
No. 69976
MR No. 787

Animal Rat Strain CR-CD Sex ♀ B.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose Control gp Ia Days Test 196 Recovery

Observations: none

Weights
Initial 104
Intermediate
Final 331

T.I. Elizabeth
Ref. MR-787

Killed 11-2-65
Killed Method CHCl3 d h m

Survival: P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.29			Thym./N.F.	0.45		
Br./Sp.C.	2.18			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Fim.				Adren.	.071		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.017		
Lungs	1.69	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.82			Es./Stom.				Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) right middle lobe consolidated (congested?)

11-2-65 G.Z.
Pathologist Gm Zuercher
MR 11-2-65 Date 11-2-65

Cause of Death:

HISTOPATHOLOGY

JFF
11-3-65

Pathologist
Date

DUP040003922

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H # 4154 Excipient

H. 4154
No. 70025
MR No. 787

Animal Rat Strain CRL-CD Sex ♀ Age B.D. 3/17/05 Diet GPLC + 1% CS

Test 2 yr. feeding Study Phase test Dose Control grp Ia Days Test 196 Recovery

Observations: none

Weights
Initial 104
Intermediate
Final 373
T.I. Elizabeth Miller
Ref. MR-787

Killed 11-2-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.51			(Thym.)/N.F.	0.40		
(Br.)/Sp.C.	1.89			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.00			Epd./Fim.				Adren.	0.088		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.022	(1)	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	12.00			Es./Stom.				Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) left anterior pituitary enlarged slightly

Cause of Death:

Pathologist Wm. Zuricks
MR 11-2-65 Date 11-2-65

HISTOPATHOLOGY

8 ff
11-3-65

Pathologist
Date

DUP040003923

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

GP IA

Material Control for H-#4154 Excipient

H. 4154
No. 69978'
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 1% CO

Test 2-yr feeding Phase Test Dose Control GP IA Days {Test 92 / Recovery

Observations:

Weights
Initial 98
Intermediate
Final 306

T.I. Joan Carew
Ref. MR-787

Killed 7-21-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.98			Thym./N.F.	0.58		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.88			Epd./Fim.				Adren.	0.057		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	1.09			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.21			Es./Stom.	1.31			Bo./B.M.			
Spleen	0.48			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-21-65
O.K.
Pathologist William C. Krauss
7-21-65 Date 7/21/65

Cause of Death:

HISTOPATHOLOGY

EH 7-22-65

Pathologist
Date

DUP040003924

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

GP I A

Material Control Excipient

H. 4154
No. 69851
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase Test Dose Control GP I A Days Test 92 Recovery

Observations:

Weights
Initial 103
Intermediate
Final 280

T.I. J. Carew
Ref. MR 787

Killed 7-21-65
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.80			(Thym.)/N.F.	0.50		
(Br.)/Sp.C.	1.70			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.90			Epd./Fim.				Adren.	0.056		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.013		
Lungs	2.31	①		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	8.43			Es./(Stom.)	1.35			Bo./B.M.			
Spleen	0.31			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Right upper, right middle & median atelectatic. Right lower 1/3 of lobe indurated and filled with greinish fluid

No BLADDER AT TRIMMING LBR 8/4/65

Pathologist William C. Krauss
Cause of Death: MR 7-21-65 Date 7/21/65

HISTOPATHOLOGY

9 ff 9.22.65

Pathologist
Date

DUP040003925

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material GPIA Control for H #4154 Excipient

H. 4154
No. 70008'
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose Control GPIA Days Test 92 Recovery

Observations:

Weights
Initial 105
Intermediate
Final 309
T.I. Joan Cowan
Ref. MR-787

Killed 7-21-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.94			(Thym.)/N.F.	0.78		
(Br.)/Sp.C.	1.90			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.90			Epd./Fim.				Adren.	0.059		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.014		
Lungs	1.92	①		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	9.44			Es./(Stom.)	1.80-1.30 mar 7/21/65			Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Right middle lobe completely abscessed

7-21-65
Gr'd: William C. Krause
Pathologist
MAR 7-21-65 Date 7/21/65

Cause of Death:

HISTOPATHOLOGY

E&S
7-22-65

Pathologist
Date

DUP040003926

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H*4154 Pb Acetate Gp IA Excipient —

H. 4154
No. 69771
MR No. 787

Animal Rat Strain Hfd-CD Sex ♀ Age 728 Days Diet 6PLC+1% CD

Test 2yr feeding Phase test Dose Control Days {Test 694 / Recovery

Observations: Continuous wgt loss since 1-31-67
possibility of otitis media
2/28 stained perineal area
3/16 pallor, emaciated - moribund

Weights
Initial 118
Intermediate 441
Final 555
T.I. E. Miller
Ref. MR-787

KILLED

Killed 3-16-67 Survival: P.M. Time —
Died — Method CO2 d — h — m — Change —

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.20			Thym./N.F.	—		
Br./Sp.C.	2.29			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.25			Epd./Fim.				Adren.	0.085		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.223	2	
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.40	1		Es./Stom.	1.93			Bo./B.M.			
Spleen	0.54			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale brown

2) Dark red vascular mass - 1 X 0.5 X 0.5 Cm.

3-16-67
CM.
Pathologist Lm Zwicker
Date 3/20/67

Cause of Death:

HISTOPATHOLOGY

3/20/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003927

NECROPSY RECORD

90-DAY SACRIFICE

Material Control Excipient

H. 4154
No. 69886
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC+1% CD

Test 2-yr. feeding Phase test Dose Control GPIA Days Test 92 Recovery

Observations:

Weights
Initial 110
Intermediate
Final 325
T.I. J. Carver
Ref. MR 787

Killed 7-21-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.09			(Thym.)/N.F.	0.60		
(Br.)/Sp.C.	1.77			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.95			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.014		
Lungs	1.66			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	9.49			Es./(Stom.)	1.61			Bo./B.M.			
Spleen	0.49			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist William C. Krauss
MR 7-21-65 Date 7-21-65

Cause of Death:

HISTOPATHOLOGY

EPS 7-22-'65

Pathologist
Date

DUP040003928

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Control Gp I A Excipient —

IA
H. 41674
No. 69 867
MR No. 787

Animal Rat Strain CbR·CD Sex F Age 715 Days Diet 6 PLC + 1% CD

Test 2 yr. feeding study Phase Test Dose Control Days Test 681 Recovery

Observations:
Continuous wgt loss since 11-22-66
3/1 razor burn, emaciated

Weights
Initial 115
Intermediate 345
Final 221
T.I. E. Miller
Ref. NR 787

KILLED

Killed 3-2-67 Survival: P.M. Time
Died Method $CHCl_3$ d h m Change

General Condition Thin, pale, dehydrated.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.30	3		Thym./N.F.	—		
Br./Sp.C.	2.08			T./Ov.	—			Thyr./P.T.			
(H.)/S.V.	1.49	1		Epd./Fim.				Adren.	0.088		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.080	5	
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	9.05	2		Es./Stom.	2.25			(Bo.)/B.M.		6	
Spleen	0.67			(Du)/Je./Il.		4		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/Ne/Mo			

1) Myocardial scarring; aorta - stiff, blood thin & pale.
2) Pale brown.
3) Firm, pale brown, granular.
4) Blue nodules along duodenum.
5) Dark focus at eye, large.

3-2-67
C.H.
Pathologist J.M. Zwicker
Date 3-2-67

Cause of Death: 6) Bone structure - soft.

HISTOPATHOLOGY

9/1
3/3/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003929

NECROPSY RECORD

Material Control Fem H# 4154 GpIA Excipient

IA
H. 4454
No. 69776
MR No. 787

Animal Rat Strain CHR·CD Sex F Age 715 Days Diet 6PLC+1% CO

Test 2 yr feeding Phase Test Dose Control Days Test 681 Recovery

Observations:

Y17 2 masses in perineal area 2"/mass
2/28 open mass - possibility of otitis media
compared unlikely

Weights
Initial 98
Intermediate 392
Final 698
T.I. E. Miles
Ref. MR-787

KILLED

Killed 3-2-67
Died Method CaCl2

Survival: d h m

P.M. Time

Change

General Condition Asabove

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.88			Thym./N.F.	—		
Br./Sp.C.	2.09			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.69			Epd./Fim.				Adren.	0.185	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.070	5	
Lungs	2.08	1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.23	2		Es./Stom.	2.18			Bo./B.M.			
Spleen	3.30	3		Du./Je./Il.				Sk./App. 1)	74.00	6	
Pancreas				Ce./Co./Re.				Ey/(Ea)/No/Mo 2)	218.00	7	

1) Pale, sl. heavy.

2) Pale brown, heavy.

3) Large soft+dark

4) Mottled red-brown, heavy

5) Vascular mass - 15x3x3 mm.

3-2-67 QW

Pathologist GM Zuccker

Cause of Death: 6) 1) Mass - firm, nodular, pale grey - anterior to right hind leg. 6cm dia. (mammary type)

Date 3-2-67

HISTOPATHOLOGY

2) Mass - semi-firm, nodular, necrotic at surface, fibrous & connective tissue like material - perineal area (right) 5x5x4cm. (mammary type)

7) Otitis media - left - extensive

8 PP
3/3/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003930

NECROPSY RECORD

Material Control Raw H.#4154 Pb Acetate Gp IA Excipient ——

H. 4154
No. 70000
MR No. 787

Animal Rat Strain CBR·CD Sex F Age 779 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Control Days Test 745 Recovery

Observations:
4/18 mass ♂ posterior to rt parotid 1" ⓒ
" anterior to rt kidney 1" Ⓐ

Weights
Initial 121
Intermediate 360
Final 762
T.I. E. Miller
Ref. M&R·787

KILLED

Killed 5/6/67 Survival: P.M. Time ——
Died —— Method $CHCl_3$ d h m Change ——
General Condition as above

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No ——
Tissue Saved: Yes ✓ No ——
Histology Follows: Yes —— No ——

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.45			Thym./N.F.			
Br./Sp.C.	2.20			T.(Ov.)		Ⓑ tt		Thyr./P.T.			
Ht./B.V.	1.82			Epd./Fim.				Adren.	Rt. 0.092 0.058	Ⓒ Rt.	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.044	Ⓓ	
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.40	Ⓔ		Es./Stom.	2.80			Bo./B.M.			
Spleen	0.88			Du./Je./Il.				Sk./App.	Ⓐ 28.80 Ⓑ 15.00	Ⓕ	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Ⓐ 5cm × 4cm × 3cm subcutaneous firm whitish tan to pinkish tissue
Ⓑ 4.5cm × 3.5cm × 2 cm subcutaneous firm whitish tissue
Ⓓ Left - 1cm dia. fluid filled cyst. clear yellowish fluid
Ⓒ Right, enlarged
Ⓓ Partly vascular, pituitary mass dark red to light red brown color, 7mm × 6mm × 3.5 mm (ruptured on removal) rounded
Ⓔ Slightly swollen, rounded margins, pale brown prominent lobular markings, friable 5-5-67 MR

Pathologist Dr Zwicker
Cause of Death: SCR Date 5/9/67

HISTOPATHOLOGY

5/9/67

Pathologist ——
Date ——

DUP040003931

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Carbital free H* 4154 Gp IA Excipient —

H. 4154
No. 60985
MR No. 787

Animal Rat Strain CD Sex F Age 778 Diet GPLO+ 1% CD

Test 2yr feeding Phase test Dose Carbital Gp IA Days { Test 744 / Recovery

Observations:
Continued wt loss from 3/28
4/3/67 mass, soft & moveable right perineal area 1½"

Weights
Initial 110
Intermediate 352
Final 372
T.I. E Mills
Ref. MR-787

Killed 5-4-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes 1 No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.25			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.15			Epd./Fim.				Adren.	0.070		
Tr./La./Br.				S.V./F.T.				Plt./Pin.	0.320	①	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.10			Es./Stom.	1.80			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.	104.10	②	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Pale brown mass 0.9 cm Dia.

② Mass mammary type, lower right inguinal area 9×6×4 cm.

5-4-67
CHL
Pathologist L M Zwicker
Date 5-12-67

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003932

NECROPSY RECORD

Material Control for H# 4154 GpIA Excipient ———

Animal Rat Strain CR.CD Sex F Age 778 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Control GpIA Days Test 744 Recovery

H. 4154
No. 69993
MR No. 787

Observations:
Continued wgt loss from 5/28 } 67
5/4 mass posterior to Left Parotid 1" }

Weights
Initial .114
Intermediate 408
Final 762
T.I. Ellis
Ref. MR-787

Killed 5/4/67
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.00			Thym./N.F.	—		
Br./Sp.C.	2.19			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.120		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.034		
Lungs	1.70			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.25			Es./Stom.	3.00			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				(Sk.)/App. M255	23.10	Dd	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(a) mass 4.5cm Dia x 2cm high subcutaneous, firm, tannish to pinkish tissue.
(b) Right perineal region 1.5 cm x .8 cm firm subcutaneous whitish tissue mass

5-4-67 MR
Pathologist Dr Zurcher
Date 5/4/67

Cause of Death:

HISTOPATHOLOGY

5/11/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003933

NECROPSY RECORD

Material Control for H# 4154 Gp IA Excipient —

H. 4154
No. 70034
MR No. 787

Animal Rat Strain CD-CD Sex F Age 7½ Diet 6 PLC + 10% CO

Test Zip feeding Phase Test Dose Control Days { Test 743 / Recovery

Observations:

Weights
Initial 111
Intermediate 286
Final 518
T.I. E Miller
Ref. NR-787

Killed 5/3/67 Survival: P.M. Time General Condition Nad.
Died — Terminated Method CHCl3 d h m Change

KILLED

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.78	(2)		Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.58			Epd./Fim.				Adren.	0.084	(3)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023		
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.10 ~~1.58~~			Es./Stom.	2.30			Bo./B.M.			
Spleen	1.58	(1)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) large, dark

(2) hydronephrosis - right

(3) mottled dark red-brown

5-3-67 CHH Pathologist Lm Zwicker ✓

Cause of Death: Exsanguination Date 5/3/67

HISTOPATHOLOGY

RJP 5/12/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003934

NECROPSY RECORD

Material Control Van H# 4154 Gp IA Excipient ———

H. 4154
No. 69881
MR No. 787

Animal Rat Strain CAR.CD Sex F Age 776 Days Diet GPLC + 1% CO

Test 2 yr feeding Phase test Dose Control Gp IA Days {Test 743 / Recovery

Observations:
Continued wgt loss from 1-31-67
13/50th solid movable mass anterior to left scalp 1" @
" " " " " " Lateral Leg 2" ⓑ

Weights
Initial 108
Intermediate 375
Final 732
T.I. E Miller
Ref. MR-787

Killed 5-3-67 Survival: P.M. Time ——— General Condition As above
Died KILLED Method CHCl3 d h m Change

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.25			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.185	③	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020		
Lungs	1.61	②		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.30	④		Es./Stom.	2.65			Bo./B.M.			
Spleen	1.35			Du./Je./Il.				Sk./App.	0.67; 0.45	①	@21803
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① 7 cm x 5 cm x 2.5 cm subcutaneous lobulated firm white to pink white tissue
② 11 cm x 8 cm x 5 cm subcutaneous lobulated firm white to tan to purple red tissue
③ Several flat grayish irregularly shaped foci on surface of all lobes
④ Enlarged, firm, whitish speckling
⑤ Swollen with rounded margins

5-3-67 MRK
Pathologist Gm Zurcher
Exam. Form Date 5-8-67

Cause of Death:

HISTOPATHOLOGY

5-4-67
5

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003935

NECROPSY RECORD

Material Control for H# 4454 Gp I A Excipient ——

H. 4454
No. 70097
MR No. 787

Animal Rat Strain CAR. CD Sex F Age 776 Days Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose Control Gp I A Days {Test 743 / Recovery

Observations:
Continued wt loss from 2/28
5/3 mass posterior to rt parotid 1"
" anterior " " " 1"
" " " left " 1"

Weights
Initial 110
Intermediate 377
Final 475
T.I. E Miller
Ref. MR-787

Killed 5-3-67
Died KILLED Method CO2 Survival: d h m P.M. Time Change

General Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.15			Thym./N.F.			
Br./Sp.C.	2.00	(1)		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.019 0.122	rt (2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.222	(3)	
Lungs	1.85			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.70			Es./Stom.	2.42			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.		(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale yellow brown color. compressed at base dorsally. pre-pituitary mass
(2) rt adrenal enlarged. left-small
(3) dark red vascular mass 1-.5-.5 cm
(4) rt lower mass - dark red lobular 1.5 cm diam Mammary type rt lower pectoral group
(5) same description - upper inguinal group (rt) 3-2.5-1.5 5-3-67
(6) same description - 1.2 cm diam - left upper inguinal group

Pathologist GM Zurcher

Cause of Death: (all masses - contained dark brown fluid & caseous like material) GMZ 5-3-67 Date 5-12-67

HISTOPATHOLOGY

V
5-12-67

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003936

NECROPSY RECORD

Material Control for H-4154 Gp I A Excipient ——

H. # 4154
No. 69846
MR No.: 787

Animal Rat Strain CHR.CD Sex F Age 776 Diet GPLC + 1% Ca

Test 2yr feeding Phase Test Dose Control Gp I A Days Test 747 Recovery

Observations:
12/20 Solid moveable mass 1" posterior to rt fore leg
2 solid masses perineal area 1½" each
3/14 ~~both~~ masses grown to 3" each

Weights
Initial 106
Intermediate 340
Final 620
T.I. Ellis
Ref. JAR-787

Killed 5-2-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition rt lower incisor elongated piercing roof of mouth.

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.75			Epd./Fim.				Adren.	0.135	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024	(3)	
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	30.50	(1)		Es./Stom.	2.60			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.		(1)(2)(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

subcutaneous mass.
(A) posterior to rt fore leg. 98.5g 8.-5-2.5 cm → lobulated firm, reddish pink
(B) rt side perineal region 49.9g 5.5-5-2.0 cm → subcutaneous semifirm white pinkish tissue plus some brown pasty material
(C) left side perineal region 117.8g 7.5-8.0-2.5 cm → also subcutaneous firm semiform, pale as above in color, plus brown pasty material.
(1) large and heavy liver
(2) large white speckling
(3) 1 mm dark focus (cyst) dorsal surface rt side

5-2-67
mc
Pathologist G. M. Zwicker
C.S.F. Date 5-8-67

Cause of Death:

HISTOPATHOLOGY

5/9/67

Pathologist
Date

DUP040003937

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Central fm H^d 4154 Gp IA Excipient ———

H. 4154
No. 69768
MR No. 787

Animal Rat Strain CDR·CD Sex F Age 776 Diet GPLC + 10% CD

Test 2yr feeding Phase test Dose Central Gp IA Days Test 742 Recovery

Observations:

Intermittent wgt loss
11/8/66 solid moveable mass posterior to rt foreleg 2½"
5/2/66 mass posterior to left foreleg 1" mass left perineal area 1"

Weights
Initial 98
Intermediate 291
Final 951

T.I. E Miller
Ref. NAR·787

Killed 5/2/67
Died KILLED Method CO2 d h m Survival: P.M. Time Change

General Condition Cachexic Dehydrated

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.95	2		Thym./N.F.			
Br./Sp.C.	2.05	①		T./Ov.				Thyr./P.T.			
Ht./B.V.	1.45			Epd./Fim.				Adren. Total 0.252	R 0.062 L 0.190	⑤	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.610	⑥	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.75			Es./Stom.	2.53			Bo./B.M.			
Spleen	1.05			Du./Je./Il.				Sk./App.	4.49.35 4.18.35 6.19.20	⑦	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Yellow brown color. Base depressed dorsally — re pituitary mass

② Surface pitted

③ Mottled dark red brown, left, greatly enlarged

④ Large, dark, red vascular mass 1.5 × 1.0 × 1.0 cm

⑦ @ Mass, mammary type, at known pictorial group 5×5×2.5 cm; fixed with carcass material 5-2-67 OAH

⑧ " " " left inguinal group 3½ cm D " " " " "

Cause of Death:

Pathologist E M Turcios

Date 5/2/67

HISTOPATHOLOGY

OAH 5/2/67

Pathologist ———

Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003938

NECROPSY RECORD

Control for H#4154

Material Pb Acetate Gp IA Excipient —

H. 4154
No. 69991
MR No. 787

Animal Rat Strain Okl. CD Sex F Age 7wk Diet GPLA + 1% CO

Test 2yr feeding Phase test Dose Control Gp IA Days Test 742 Recovery

Observations:

Weights
Initial 90
Intermediate 334
Final 608
T.I. 6 Mths
Ref. MP-787

Killed 5-2-67
Died KILLED Method CHCl3 d h m Survival: Change P.M. Time

General Condition small mick gonglet on right side of throat region

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.75			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.		(1)		Thyr./P.T.			
Ht./B.V.	1.35			Epd./Flm.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.90	(2)		Es./Stom.	2.00			Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one side of uterine horn has small fluid filled cyst 1cm - 5cm

(2) pale - prominent lobular markings

5-2-67
MR Pathologist GM Zurcher
CLF Date 5-2-67

Cause of Death:

HISTOPATHOLOGY

5-17-67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003939

NECROPSY RECORD

Material Pb acetate GpII Excipient —

Animal Rat Strain CR CD Sex ♀ Age 684 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% AB 10PPM Days Test 650 Recovery

H. 44524
No. 69770
MR No. 787

Weights
Initial 98
Intermediate 409
Final 610 1-17

T.I. E.M. Miles
Ref. MR-787

Observations: 8-2-66 soft moveable mass posterior & left foreleg 1½" diameter
1-3-67 unexplainable large weight loss

FOUND DEAD

Killed — Survival: — P.M. Time 3½ hrs.? General Condition animal was rigid in extremities, perineal region discolored red-brown

Died F.D. 1-30-67 Method — d — h — m — Change moderate

Histology Recommended: Yes — No —
Tissue Saved: Some Yes ✓ No —
Histology Follows: Yes — No —

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(3) ✓		Thym./N.F.			
Br./Sp.C.				T./(Ov)		(5)		Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.		(6)	
Lungs		✓		Pr./(Ut.)		(4)		Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(1) ✓		Es./Stom.				Bo./B.M.			
Spleen		(2) ✓		Du./Je./Il.				(Sk.)/App.		(7)	
Pancreas				(Ce.)/Co./Re.		(5)		Ey/Ea/No/Mo			

(1) mod. enlarged, pale tan, rounded margins, friable.

(2) enlarged, swollen with rounded margins

(3) pale tan

(4) left horn at bifurcation contains 1.5 cm x .8 cm dark gray-green, rubber-like fleshy.

1-30-67
MAC
Pathologist Gm Zuricker
Date 1-30-67

Cause of Death:

HISTOPATHOLOGY

(5) volvulus involving cecum, il., ov. + left ovary; cecum considerably swollen, darkened in color, containing darkened-brown turbid fluid plus necrotic material.

(6) pit. slightly enlarged, with a 3mm long x 2mm wide darkened discoloration of tissue around eye extending down through to ventral surface of pit.

(7) liver with foci, involving entire left lobe (mammary); firm, white to pink-gray tumor, lobulated.

9H
1/30/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003940

NECROPSY RECORD

Material Pb. Acetate Gp II Excipient —

H. 4154
No. 69 773
MR No. 787

Animal Rat Strain CR·CD Sex ♀ Age 6½ Diet GPLC + 1% CO

Test 2yr. feeding Phase test Dose .001% Pb 10 PPM Days Test 610 Recovery

Observations: large solid mass with necrotic surface 4" diam.

Weights
Initial 111
Intermediate 401
Final 703
T.I. E. Miller
Ref. MR 787

KILLED

Killed 12-21
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition As above, & pale (lower mammary area)

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.20			Thym./N.F.	—		
Br./Sp.C.	2.19			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.72			Epd./Fim.				Adren.	0.090	3	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.033	4	
Lungs	2.13			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	29.60	1		Es./Stom.	2.43			Bo./B.M.			
Spleen	3.68	2		Du./Je./Il.				(Sk)/App.	160.55	5	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale, lobular markings prominent, edges rounded.

2) Pale, swollen, heavy.

3) Pale

4) Hypertrophied

5) Large - necrotic mass - red-brown fibrous - blood filled tissue. (Left lower mammary area) 10 × 6 × 4 Cm.

12-21-66 CHH. O
Pathologist William C. Krause
Date 12-21-66

Cause of Death:

HISTOPATHOLOGY

* Lungs - Several white nodules - right lower - left lobes 1 mm dia. (Not noted at autopsy) CHH 1-12-67

EH
12/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003941

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ——

H. 4154
No. 69777
MR No. 787

Animal Rat Strain CRL:CD Sex F Age 476 Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose .001% Pb in ATM Days Test 742 Recovery

Observations:

Weights
Initial 94
Intermediate 290
Final 460
T.I. E Miller
Ref. 787

Killed 5/2/67 Survival: P.M. Time General NAD
Died KILLED Method CH Cl3 d h m Change Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.50			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.20			Epd./Fim.				Adren.	0.068		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024	②	
Lungs	1.50	①		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.80			Es./Stom.	2.20			Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Few red foci - all lobes 0.5 mm Dia.

② Small dark red focus - right posterior pituitary

5-2-67
C.S.M.
Pathologist E M Zwicker
Date 5/2/67

Cause of Death:

HISTOPATHOLOGY

5/12/67

Pathologist ____
Date ____

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003942

NECROPSY RECORD

Material Pb Acetate Excipient

H. 4154
No. 69779
MR No. 787

Animal Rat Strain CHR-CD Sex ♀ Age 314 days Diet .001% Pb + GPLC

Test 2 yr. feeding Study Phase Test Dose .001% Pb Days Test 280 Recovery

Observations: 1-4-66 solid mass perineal area 2 1/2" 1-18-66 4" diameter
1-25-66 tumor opened, extreme pallor

Weights
Initial 108
Intermediate 345
Final 396

T.I. Elizabeth Miles
Ref. MR-787

Killed 1-25-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition emaciated - Ro alone

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.62	S-		Thym./N.F.	—		
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.01			Epd./Flm.				Adren.	.068		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.012		
Lungs	1.41			Pr./Ut.				Sal./Lac.	2.		
L. N.				Bl./Ur.				M./M./F.		L.	
Liver/G.B.	13.20	3.		Es./Stom.	1.89			Bo./B.M.			
Spleen	.22	4.		Du./Je./Il.				Sk./App.	1.		
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 6 x 6 x 5 cm firm white mass - located medially and attaching from hip joint to middle third of left leg. - closely involved with bone.
2. Olive color, reduced to 1/3 normal size, mushy consistency.
3. yellow, fatty, mushy
4 Small

Cause of Death: 5. Pale yellow surface, mushy consistency, known ca

Pathologist William C. Rowe
Date 1-25-66

HISTOPATHOLOGY

Cortex medullary junction 6. Thigh muscles were dark brown and reduced in volume.

Pathologist
Date 1-26-66

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003943

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

Animal Rat Strain CBL·CD Sex F Age 782 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days

H. 4554
No. 69786
MR No. 787
Test 748
Recovery

Observations: 4/18 solid moveable mass position 4 left flank 1"

Weights
Initial 116
Intermediate 326
Final 372
T.I. E Miller
Ref. MR-787

KILLED

Killed 2/15/67
Died — Method CHCl3 Survival: d h m P.M. Time — Change

General Condition Cachexic

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.50	①		Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.054		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020	③	
Lungs	1.55			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.85			Es./Stom.	1.50			Bo./B.M.			
Spleen	0.50			Du./Je./Il.		②		Sk./App.	17.00	④	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Pale brown, surface partly granulated

② Blue nodules (arteritis)

③ Dark red focus anterior pituitary 2mm Dia.

④ Mass mammary type, left pectoral group (4cm x 3cm x 2cm)

5-8-67 CHC

Pathologist GM Zweigbaum
Date 5/8/67

Cause of Death:

HISTOPATHOLOGY

GMZ 5/8/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003944

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 4154
No. 69991
MR No. 787

Animal Rat Strain CAR.CD Sex F Age 758 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase test Dose .001% Pb 10 ppm Days Test 724 Recovery

Observations: Continued wgt loss since 11-22-66

Weights
Initial 110
Intermediate 492
Final 330
T.I. E Miles
Ref. MR-787

KILLED

Killed 4-14-67
Died ——— Method CHCl3

Survival: d ——— h ——— m ———

P.M. Time ———
Change ———

General Condition animal extremely thin; fur yellow & rough looking

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes / No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.88	(3)		(Thym.)/N.F.	—	(4)	
(Br.)/Sp.C.	2.15	(1)		(T.)/Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.21			Epd./Fim.				Adren.	0.094	(5)	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.401	(6)	
Lungs	1.61			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	14.48	(2)		Es./(Stom.)	2.05			Bo./B.M.			
Spleen	0.41			Du./Je./Il.				(Sk.)/App.		(7)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) ventral surface of brain compressed appearance (pit. mass).

(2) prom. lobular markings

(3) both kidneys pale brown, granular externally & internally & somewhat spongy.

(4) atrophied

(5) both adrenals had whitish and darkened-brown speckling.

4-14-67 MR
Pathologist Jim Zwicker
Date 4-14-67

Cause of Death:

HISTOPATHOLOGY

(6) pituitary mass, 1.2cm x 0.9cm x 0.8cm high, semi-firm, red-brown.

(7) two small subcutaneous masses in perineal region (one right, one left side), firm, whitish tissue.

RH
4/19/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003945

NECROPSY RECORD

Material Pb Acetate Exp II Excipient —

H. 4154
No. 69792
MR No. 787

Animal Rat Strain CD-CD Sex ♀ Age 688 Days Diet 6% LC + 1% CO

Test 2 yr. feeding Phase Test Dose .001% in DW 10 ppm Days Test 654 Recovery —

Observations: Large moveable mass anterior left hind leg 1" subcutaneous, pallor —

Weights
Initial 103
Intermediate 294
Final 368 1-31
T.I. C.R. Miller
Ref. NLR-787

KILLED

Killed 2-5-67
Died — Method CHCl3 Survival: d — h — m — P.M. Time —
Change —

General Condition Autopsy

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40			Thym./N.F.	—		
Br./Sp.C.	2.29	1		T./Ov.	—			Thyr./P.T.			
Ht./B.V.	0.92			Epd./Fim.				Adren.	0.092	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.179	3	
Lungs	1.31			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N:/M:/F.			
Liver/G.B.	9.79			Es./Stom.	1.81			Bo./B.M.			
Spleen	0.60			Du./Je./Il.				Sk./App.	35.00	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Sl. compression - ventro-dorsally - re- pituitary mass.

2) Mottled - red brown.

3) Dark red vascular mass - 0.5 x 0.5 x 1.00 Cm.

4) Pale grey lobular, semi-firm mass - anterior to left hind leg. (mammary type)

2-3-67
Pathologist L. Zunickes
Date 2-3-67

Cause of Death:

HISTOPATHOLOGY

3/1/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003946

NECROPSY RECORD

Material Lead Acetate Gp II Excipient

H. 4154
No. 69800
MR No. 787

Animal rat Strain CRL-CD Sex ♀ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .001% (10 ppm) Pb Gp II Days Test 92 Recovery

Observations:

Weights
Initial 86
Intermediate
Final 269
T.I. Joan Cauer
Ref. MR-787

Killed 7-21-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.73			Thym./N.F.	0.70		
Br./Sp.C.	1.97			T./Ov.				Thyr./P.T.			
Ht./B.V.	0.81			Epd./Fim.				Adren.	0.067		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.05			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.05			Es./Stom.	1.00			Bo./B.M.			
Spleen	0.57			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-21-65
G.H.d.
Pathologist William C. Krauss
M.M.R. 7-21-65 Date 7-21-65

Cause of Death:

HISTOPATHOLOGY

EPP
1-22-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003947

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

Animal Rat Strain CBB-CD Sex F Age 745 Days Diet GPLC+1% CD

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days

H. 4154
No. 69802
MR No. 787
Test 711
Recovery

Observations:
7-5-66 hard moveable mass anterior to left hind leg 1/2"
1-19-67 mass grown to 4" necrotic surface

Weights
Initial 100
Intermediate 300
Final 68 3/28
T.I. C. Wilde
Ref. MRP-787

FOUND DEAD

Killed —
Died 4-1-67 Method —
4-1-67
Survival: d h m
P.M. Time ?
Change odor.

General Condition Pale, flaccid cadaver + as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.		not saved		T./Ov.				Thyr./P.T.			
Ht./B.V.		P.M. Change		Epd./Fim.		P.M. Change		Adren.		P.M. Change	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				(Sk)/App.	404.58	/	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Mass - dark red & cystic, nodular, partly necrotic - (entire left inguinal group) 14x10x5 Cm.

4-3-67
GM
Pathologist G M Zwicker
Date 4-6-67

Cause of Death:

HISTOPATHOLOGY

GM
4/4/67

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003948

NECROPSY RECORD

Material Pb Acetate Lot II .001% Pb Excipient ~~~~

Animal Rat Strain CR-CD Sex ♀ Age 581 Days Diet GPLC + 1% CO

Test Dip feeding Phase test Dose .001% Pb 10 PPM Days Test 547 Recovery

H. 4454
No. 69840
MR No. 787

Observations: 7/25/66 mass anterior to right hind leg laid and moveable about ½" diameter

Weights
Initial 100
Intermediate 401
Final 790
T.I. E. Miles
Ref. MR-787

Killed 10-17-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			Thym./N.F.			
Br./Sp.C.	2.00			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	.027	1.	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.100		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.10	2.		Es./Stom.	2.35			Bo./B.M.			
Spleen	1.0			Du./Je./Il.				Sk./App.	13.20	3.	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. small 1 mm. red focus on dorsal surface.
2. Slightly pale, lobular markings prominent.
3. Mass anterior to right hind leg, lobular, firm light brown to dark red 6 cm in diam.

10-19-66
CHM
Pathologist William C. Rowse
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

WHP
10/24/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003949

NECROPSY RECORD

Material Pb Acetate 6pt. .001% Pb Excipient ——

Animal Rat Strain DBA/2N Sex F Age 76 & 5 Days Diet 5PLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 ppm Days

Observations: 2/28 - abcess on left hind foot

H. 4154
No. 69841
MR No. 787
Test 73+2
Recovery
Weights
Initial 115
Intermediate 416
Final 790 4/18
T.I. E. Miller
Ref. MR: 787

FOUND DEAD

Killed
Died 4-22-67 Method d h m

Survival:
P.M. Time < 48 hrs
Change Mod-adv.

General Condition (pressure sore) at above. Above

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.		not found		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		2	
Lungs		1		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Mottled dark red throughout.

2) Hypertrophied.

4-24-67
Pathologist Gm Zweicker
Date 4-24-67

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003950

NECROPSY RECORD

Material Pb Acetate .001% Pb 4 of II Excipient ~~~~

Animal Rat Strain CAR-CD Sex ♀ Age 581 Days Diet GPLC+1% CO

Test 2 yr feeding Phase test Dose .001% Pb 10 PPM Days Test 547 Recovery

Observations: None

H. 4154
No. 698443
MR No. 787

Weights
Initial 104
Intermediate 334
Final 461
T.I. E. Miller
Ref. MP-787

Killed 10-19-66
Died KILLED Method CH Cl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ~~No~~
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40			Thym./N.F.			
Br./Sp.C.	2.12			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.25			Epd./Fim.				Adren.	.068		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.021	1.	
Lungs	1.36			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.75			Es./Stom.	2.10			Bo./B.M.			
Spleen	.85			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. two 1 mm adj foci

10-19-66
GM
Pathologist William C. Krauss
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

6/24/68

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003951

NECROPSY RECORD

Material Pb Acetate GP II Excipient —

H. 4454
No. 69850
MR No. 787

Animal — Strain CBR CD Sex ♀ Age 6 30 Days Diet GPL C+1% CO

Test — Phase — Dose — Days { Test 596 / Recovery —

Weights
Initial 118
Intermediate 366
Final 12/6 588
T.I. E Mike
Ref. MR-787

Observations: (A) 5/10/66 solid moveable mass ½" dia. posterior to left foreleg
8/16 2"
11/2 3" necrotic surface
12/6 4"
(B) → also mass rt. foreleg. 3" diameter

Fed FOUND DEAD Survival: P.M. Time overnight ? General as above; flaccid, discolored
Died 12-1-66 Method — d — h — m Change advanced Condition cadaver; emaciated thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(1) ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.		P.M. change	✓	Epd./Fim.		P.M. change		Adren.		P.M. change	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs			✓	Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(2)	✓	Es./Stom.				Bo./B.M.			
Spleen	Autolysed P.M.			Du./Je./Il.	Autolysed P.M.			Sk./App.	Autolysed P.M.	(3)	weights A-234.90 gm B-68.20 "
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) both kidneys were enlarged, pale brown and granular in appearance (external + internal)

(2) liver was large (P.M. change ?)

(some tissues saved - most autolysed by P.M. changes)

(3) mass A: 10 cm x 8 cm x 6 cm; subcutaneous, lobulated, medium gray to purple - red internal color of tissue, firm to cut

12-7-66
MRS
Pathologist —
Date 12-7-66

Cause of Death:

HISTOPATHOLOGY

(3) Mass B: 6 cm x 4 cm x 4 cm; subcutaneous, lobulated, grayish-white to purplish-red internal color of tissue, firm to cut.

RPP
12/21/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003952

NECROPSY RECORD

Material Pb Acetate .001% Pb Ppt Excipient ~~~

H. 4154
No. 69861
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 581 Days Diet GPLC+1% CO

Test 2yr. feeding Phase test Dose .001% Pb 10 PPM Days Test 547 Recovery

Observations: none

Weights
Initial 100
Intermediate 330
Final 505

T.I. E. Mile
Ref. MR-787

Killed / Died KILLED Method ____ Survival: d ____ h ____ m ____ P.M. Time ____ Change ____

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ____ No ____
Tissue Saved: Yes ✓ No ____
Histology Follows: Yes ____ No ____

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.72			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.45			Epd./Fim.				Adren.	.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.036	1.	
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.82			Es./Stom.	2.28			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Slightly large

10-19-66
Pathologist Mac & William C. Krauss
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

WNL
10/24/66

Pathologist ____
Date ____

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003953

NECROPSY RECORD

Material Pb Acetate Grp II .001% Pb Excipient ———

H. 4454
No. 6-9875
MR No. 787

Animal Rat Strain CRL:CD Sex F Age 782 Diet 6PLC+Mo CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days {Test 748 / Recovery ———

Weights
Initial 116
Intermediate 401
Final 625
T.I. E Miles
Ref. MP-787

Observations: 2/28 solid moveable mass axillary rt hind leg 2"

KILLED

Killed 5/8/67 Survival: P.M. Time ———
Died ——— Method CHCl3 ___d ___h ___m Change ———

General Condition As above (man)

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	0.114		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.111	(4)	
Lungs	15.0	(2)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.10	(5)		Es./Stom.	1.90			Bo./B.M.			
Spleen	0.37	(3)		Du./Je./Il.				(Sk.)/App.	73.30	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) (7.5 x 5.5 x 2.5 cm), mass, subcutaneous, bi-lobed, firm, white to tan/dk to pink/dk to grey/dk tissue.

(2) a few gray-green, flat, 2 mm, irregularly shaped foci on marginal surface of right anterior lobe.

(3) very small spleen

(4) pituitary mass 7mm x 6mm x 5mm high, firm, dark red.

5-8-67 WMR
Pathologist GM Zuricken
BMB Date 5/7/67

Cause of Death:

HISTOPATHOLOGY

(5) one 5 mm dia. dark red slightly depressed focal area on surface of cystic lobe near post. margin; margins appeared rounded & slightly swollen

BB 5/9/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003954

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

Animal Rat Strain CAR:CD Sex Female Age 762 Diet GPLC + 1% Ca

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days Test 728 Recovery

H. 4154
No. 69878
MR No. 787

Weights
Initial 99
Intermediate 380
Final 780
T.I. E Miles
Ref. MR 787

Observations:
12/20/66 hard moveable mass 1" between fat pads
4/18/67 mass between fat pads grown to 2"
Stomach - abdominal area extremely hard

KILLED

Killed 4-18-67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.	281.80	3		Kidney	3.57	2		Thym./N.F.	—		
Br./Sp.C.	2.02			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.61			Epd./Fim.				Adren.	0.162	4	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026		
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.00	1		Es./Stom.	2.00			Bo./B.M.			
Spleen	1.50			Du./Je./Il.				Sk./App.	93.90	5	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale brown -

2) Hydronephrosis, bilateral.

3) Huge, lobulated, dark red & brown mass - very firm - attached to peritoneal wall (inner) & sternal fat pad - No apparent involvement with internal viscera. 8 Cm dia. (Cut sections - muscle - fat)

4) Large - dark red-brown.

4-18-67
CHL

5) Mass - firm, white. (mammary type) - extirp upper pectoral group 7 x 5 x 3.5 Cm.

Pathologist GM Zwickler
Date 4/18-67

Cause of Death:

HISTOPATHOLOGY

GMZ
4/19/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003955

NECROPSY RECORD

Material Lead Acetate GP II Excipient

H. 4154
No. 69883
MR No. 787

Animal rat Strain Chl-(D) Sex ♀ Age 127 days Diet 6PLC + 1% CO

Test 2-yr. feeding Phase test Dose .001% (10ppm) Pb GP II Days Test 93 Recovery

Observations:

Weights
Initial 118
Intermediate
Final 323

T.I. J. Carew
Ref. MR 787

KILLED

Killed 7-22-65
Died Method $CHCl_3$

Survival: d h m

P.M. Time
Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.33			(Thym.)/N.F.	0.63		
(Br.)/Sp.C.	1.89			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.10			Epd./Fim.				Adren.	0.058 ~~0.058~~		HVF 9/2/65
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015 ~~0.015~~		
Lungs	1.32			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	11.44			Es./(Stom.)	1.53			Bo./B.M.			
Spleen	0.54			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist William C. Krauss
MAR 7-22-65 Date 7-22-65

Cause of Death:

HISTOPATHOLOGY

EFS 9-23-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003956

NECROPSY RECORD

Material Lead Acetate Excipient

Animal Rat Strain CBR-CD Sex ♀ Age B.D. 3/17/65 Diet GPLC + 1% CO

Test 2yr. feeding Study Phase test Dose H # 4154 0.001% Gr. II Days

Observations: none

H. 4154
No. 69887
MR No. 787
Test 197
Recovery

Weights
Initial 108
Intermediate
Final 372
T.I. Elizabeth Hunter
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.80			Thym./N.F.	.40		
Br./Sp.C.	1.85			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.25			Epd./Fim.				Adren.	.053		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.019		
Lungs	1.75			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.80			Es./Stom.				Bo./B.M.			
Spleen	.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Cause of Death:

Pathologist GM Zucker
Date 11-3-65

HISTOPATHOLOGY

S-SP
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003957

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

Animal Rat Strain CAR-CD Sex F Age 779 Diet GPLC + 1% CO

Test 24 yr feeding Phase test Dose .001% Pb 10 ppm Days Test 745 Recovery

H. 41524
No. G 9892
MR No. 787

Observations: 5/5 mass anterior to left hind leg 1"

Weights
Initial 706
Intermediate 374
Final 682
T.I. Eubles
Ref. MR-787

KILLED
Killed 5-5-67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.65	③ Rt.		Thym./N.F.			
Br./Sp.C.	2.15			T.(Ov.)		① Lt.		Thyr./P.T.			
Ht./B.V.	1.72			Epd./Fim.				Adren.	0.097		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.073	④	
Lungs	1.44			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.95			Es./Stom.	2.35			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.	9.40	②	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Lft ovary - 7mm Dia. fluid filled cyst. clear yellowish fluid

② 3.5cm x 3cm x 1.5cm subcutaneous, firm lobulated, whitish to pinkish tissue

③ Right - Kidney 3mm Dia. raised fluid filled cyst extending into cortex, also surrounding cyst was light brown 8mm Dia halo extending into cortex & medulla.

Lft Kidney - a 5mm Dia. light-brown focal area on surface, also extending into cortex & medulla. (cut surface)

④ Enlarged light red brown semi firm with 1mm Dia dark pt focus on dorsal surface, anterior end

5-5-67 MAR

Pathologist Dr Asst Dr M Zuckerman

Date 5-5-67

Cause of Death:

HISTOPATHOLOGY

5-7-67

Pathologist ———

Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003958

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

Animal Rat Strain CHR-CD Sex ♀ Age 733 Days Diet 6 PLC + 1% CG

Test 2yr feeding Phase test Dose Gp II .001% Pb 10 PPM Days Test 649 Recovery

H. 4154
No. 69906
MR No. 784

Observations: teeth cut frequently
1/19 2 masses left side 1½" each necrotic surfaces
3/20 mass opened and bleeding —

Weights
Initial 100
Intermediate 330
Final 482
T.I. E. Mile
Ref. NLR. 787

KILLED

Killed 3-20-67
Died — Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition Pale & asthenic

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.77			Thym./N.F.	—		
Br./Sp.C.	2.20			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.61			Epd./Fim.				Adren.	0.190	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.029	3	
Lungs	2.06			Pr./Ut.				Sal./Lac.			
L. N.	—	—	—	Bl./Ur.				N./M./F.			
Liver/G.B.	18.73			Es./Stom.	2.66			Bo./B.M.			
Spleen	5.20	1		Du./Je./Il.				(Sk)/App. ♂	26.00	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mat ♀	58.00		

1) Large - pale red-brown.

2) Large - mottled red-brown.

3) Dark red focus, Oesophagus

4) Mass - a) - semi-firm, surface necrotic; red-brown. } both filled with caseous-like material - 5x3.5x2.5 Cm.
" b) " " " " " - " " } - " left side 7x5x3.5 Cm

3-20-67
Pathologist Jm Zwicker
Date 3-20-67

Cause of Death:

HISTOPATHOLOGY

9/l
3/21/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003959

NECROPSY RECORD

Material Pb Acetate Gp II Excipient —

H. 4154
No. 69920'
MR No. 787

Animal Rat Strain CBR·CD Sex ♀ Age 680 Days Diet GOLC + 1% CO

Test Oral 2yr. feeding Phase test Dose .001% Pb 10 DPM Days Test 646 Recovery

Observations:

continuous wgt loss from 12-20-66

8:00 a 1-26-67 Maribund. Found dead 9:30am.

FOUND DEAD

Weights
Initial 109
Intermediate 324
Final 278 1-12-67
T.I. E. Miles
Ref. MRR·787

Killed — Survival: P.M. Time Hur. ?

Died 1-26-67 Method — d h m Change now to light

General flaccid, warm cadaver; perineal Condition rgm stain/greenish-brown.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(3)		Thym./N.F.		(6)	
(Br.)/Sp.C.		(8)		T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		(1)		Es./(Stom.)		(4)		Bo./B.M.			
Spleen	3.50	(2)		Du./Je./Il.		(5)		(Sk.)/App.		(7)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) splotchy red-brown color (light + dark), small lesions with rounded margins, friable.

(2) enlarged, small lesions with rounded margins

(3) dark brown, slightly granular

(4) many irregular areas of erosions in glandular mucosa - no ingesta present

(5) gi tract, cecum empty of food, few, small, mucoid-like fecalia seen

1-26-67 MRR
Pathologist William C. Krause
Date 1-26-67

Cause of Death:

HISTOPATHOLOGY

(6) atrophied

(7) one small (1.5cm x 1cm) mucin pocket in throat region, right side; contained firm, grayish-red tissue plus white, thick liquid material.

(8) a few dark red focal areas (2mm dia. specks) on surface of brain plus some dark red area within cavities of brain

9/27/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003960

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 4154
No. C 9923
MR No. 787

Animal Rat Strain CR.CD Sex F Age 776 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days {Test 742 / Recovery ———

Observations: 4/18 Solid immobileness between fingers 1"

Weights
Initial 96
Intermediate 441
Final 790
T.I. E Miles
Ref. JAR-787

Killed 5/2/67
Died KILLED Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.35			Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.098	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.026	(3)	
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.85	(1)		Es./Stom.	2.50			Bo./B.M.			
Spleen	0.95			Du./Je./Il.				Sk./App.	24.37	(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Pale red brown lobular markings prominent

(2) Mottled dark red brown

(3) Dark red focus, left anterior pituitary

(4) Mass left upper pectoral group, mammary type 5 x 4 x 2.5 cm

5-2-67 GMS

Pathologist GM Zwicker

Cause of Death:

Date 5/2/67

HISTOPATHOLOGY

9 Pf 5 1 67

Pathologist ———

Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003961

NECROPSY RECORD

Material Pb Acetate Gp II · 001% Pb Excipient ———

H. 4154
No. 69924
MR No. 787

Animal Rat Strain Chr CD Sex F Age 775 Diet GPLC + 1% CD

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days Test 774 Recovery

Observations: 5/1 solid mass anterior to left hind leg 1/2 x 1 1/2" below groin flap

Weights
Initial 93
Intermediate 285
Final 425
T.I. CMiles
Ref. NLR-787

Killed 5-1-67 Survival: P.M. Time ——— General Condition NAD
Died KILLED Method CO2 d h m Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.25			Thym./N.F.			
Br./Sp.C.	1.85			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.098		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.091	②	
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.30			Es./Stom.	2.00			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.		①	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Two small milk packets on ventral side.
② Vascular dark red pit mass 8mm - 6mm - 4mm

5-1-67 MR Pathologist Lyn Zurcher
Cause of Death: Date 5-2-67

HISTOPATHOLOGY

5/12/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003962

NECROPSY RECORD

Material Lead Acetate Excipient

H. 41154
No. 70019
MR No. 787

Animal Rat Strain CD-CD Sex ♀ ~~Age~~ B.D. 3/17/65 Diet GPLC + 1% Co

Test 24-feeding study Phase test Dose H# 4154 0.001% Pb Days Test 197 Recovery

Gr. II

Observations: none

Weights
Initial 114
Intermediate
Final 442

T.I. Ely Nutr.
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.70			Thym./N.F.	.65		
Br./Sp.C.	1.90			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.05			Epd./Flm.				Adren.	0.076		
Tr./La./Br.	i			S.V./F.T.				Pit./Pin.	0.018		
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.90			Es./Stom.				Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D.

Pathologist Lynn Zuercher
Date 11/3/65

Cause of Death:

HISTOPATHOLOGY

9 Pf
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003963

NECROPSY RECORD

Material Pb Acetate GPLC .001% Pb Excipient ———

H. 4154
No. 69926
MR No. 787

Animal Rat Strain CR.CD Sex F Age 775 Diet GPLC + 1% Co

Test Rep feeding Phase test Dose .001% Pb 10 PPM Days Test 741 Recovery

Weights
Initial 94
Intermediate 369
Final 735

T.I. E. T. Niles
Ref. NLP-787

Observations:
12/20 soft moveable mass 1½" between lobes
5/1 mass grown to 3'

Killed 5-1-67 Survival: P.M. Time ——— General Condition As above
Died KILLED Method C7H6Cl3 d ___ h ___ m ___ Change ———

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.31			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.10			Epd./Fim.				Adren.	0.119	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.027		
Lungs	1.90			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	27.0	(3)		Es./Stom.	2.22			Bo./B.M.			
Spleen	1.29			Du./Je./Il.				Sk./App.	176 99	(2)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Dark red white, pink white speckling

(2) 10 cm in diameter × 3 cm Firm to semi firm subcutaneous, lobulated. Tissue Pinkish White, Reddish Brown, Some Lenticular fluid

(3) Pale, swollen with rounded margins, also friable, prominent lobular markings

5-1-67
MAR
Pathologist Dr Zuricks
EMM CSE Date 5-6-67

Cause of Death:

HISTOPATHOLOGY

5/11/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003964

NECROPSY RECORD

Material Pb Acetate Grp II .001% Pb Excipient ———

H. 4154
No. 69936
MR No. 787

Animal Rat Strain CRL·CD Sex F Age 782 Diet GPLC + 1% CO

Test Exp Feeding Phase Test Dose .001% Pb 10 ppm Days Test 748 Recovery ———

Observations:

Weights
Initial 123
Intermediate 455
Final 795
T.I. E Wiley
Ref. HLR-787

KILLED

Killed 5/8/67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ———

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.70	(3)		Thym./N.F.			
Br./Sp.C.	2.05			T./Ov.				Thyr./P.T.			
Ht./B.V.	2.35			Epd./Fim.				Adren.	0.077	(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024	(5)	
Lungs	1.85	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.92	(2)		Es./Stom.	2.25			Bo./B.M.			
Spleen	1.20			Du./Je./Il.				Sk./App.			
Pancreas				Co./Co./Re.				Ey/Ea/No/Mo			

(1) Area of consolidation - lft lung

(2) Pale brown, lobular markings prominent, few dark red foci scattered 1 to 2.5 mm Dia.

(3) Pale brown

(4) Mottled dark red brown

(5) Dark red focus anterior pituitary 1.5 mm Dia
" " " posterior " "

Cause of Death:

5-8-67 GM
Pathologist GM Zwicker
DMS
Date 5/8/67

HISTOPATHOLOGY

5/8/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003965

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ———

H. 41554
No. 69940
MR No. 787

Animal Rat Strain CBR·CD Sex ♀ Age 723 Diet GPLC + 1% ea

Test 2 yr. feeding Phase test Dose .001% Pb 10 ppm Days { Test 689 / Recovery

Observations: none –

Weights
Initial 113
Intermediate 372
Final 670 2/28
T.I. E. Miller
Ref. MR·787

FOUND DEAD

Killed 3
Died 3-10-67 Method ——— Survival: d —— h —— m —— P.M. Time —— Change ——

General Condition: Rotten cadaver.

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				(Sk)/App.		2	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red areas throughout.

2) Dark red, firm mass – (mammary type) right pericial area. 4.5 × 4.0 × 2 Cm.

3-10-67
Pathologist Gm Zwicker
Date 3-10-67

Cause of Death:

HISTOPATHOLOGY

3/13/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003966

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

H. 4454
No. 69942
MR No. 787

Animal Rat Strain CHR.CD Sex F Age 778 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10PPM Days Test 744 Recovery

Observations:

4/18 mass between fur legs 1" - slightly to the left

Weights
Initial 106
Intermediate 424
Final 908
T.I. E Miller
Ref. MR-787

Killed KILLED
Died Method CO_2 Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.65			Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.072		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.044	(1)	
Lungs	2.08			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.45			Es./Stom.	2.40			Bo./B.M.			
Spleen	0.65			Du./Je./Il.				Sk./App.	37.25	(2)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Dark red focus at eye 3 mm Dia; hypertrophic.

(2) mass mammary type - 5 x 5 x 2.5 cm located left lower pectoral group.

Cause of Death:

5-4-67
Pathologist [signature]
Date 5/4/67

HISTOPATHOLOGY

5/11/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003967

NECROPSY RECORD

Material Pb Acetate Hpo .001% Pb Excipient ———

H. 24154
No. 69945
MR No. 787

Animal Rat Strain Alk. CD Sex ♀ Age 581 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .001% Pb 10PPM Days {Test 547 / Recovery

Observations:
8/16/66 solid moveable mass posterior to left hind leg 1" diameter

Weights
Initial 116
Intermediate 361
Final 640
T.I. E. Miller
Ref. NLL-787

Killed 10-19-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change
General Condition Go above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.10			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.45			Epd./Fim.				Adren.	.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.020		
Lungs	2.11	1.		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.8	2.		Es./Stom.	2.28			Bo./B.M.			
Spleen	.82			Du./Je./Il.				Sk./App.	78.0	3.	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. anterior portion right middle lobe consolidated
2. slightly pale, prominent lobular markings
3. Mass - 7½ x 6½ x 2½ Cm. Semi-firm white

10-19-66 CHL
Pathologist William C. Rowe
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

BH
6/24/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003968

NECROPSY RECORD

Material GP II Lead Acetate Excipient

H. 4154
No. 69450
MR No. 787

Animal rat Strain CR-CD Sex ♀ Age 126 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase Test Dose .001% (10 ppm) Pb GP II Days Test 92 Recovery

Observations:

Weights
Initial 94
Intermediate
Final 261
T.I. J. Carver
Ref. MR 787

Killed 7-21-65
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.80			(Thym)/N.F.	0.70		
(Br.)/Sp.C.	1.82			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.90			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015		
Lungs	1.20			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	8.68			Es./(Stom.)	1.09			Bo./B.M.			
Spleen	0.79			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist William C. Krauss
MR 7-21-65 Date 7-21-65

Cause of Death:

HISTOPATHOLOGY

S71
7/22/65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003969

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

Animal Rat Strain CRL:CD Sex F Age 7M6 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days Test 242 Recovery

H. 4154
No. 69954
MR No. 787

Observations:
5/1/67 mass rt. perineal area 1"

Weights
Initial 103
Intermediate 416
Final 720
T.I. E Miles
Ref. MR-787

Killed 5/2/67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.60			Thym./N.F.			
Br./Sp.C.	1.97			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.45			Epd./Fim.				Adren.	0.079		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.040	(2)	
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.00			Es./Stom.	2.20			Bo./B.M.			
Spleen	~~20.75~~			Du./Je./Il.				Sk./App.	15.90	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Subcutaneous mass located as above 4cm dia. x 1.5 cm Firm white to pink white
(2) Appeared slightly swollen

5-2-67 MAC

Pathologist Dr Zwicker
Date 5/3/67

Cause of Death:

HISTOPATHOLOGY

9/8/17
6 W

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003970

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

Animal Rat Strain CHR-CD Sex M F Age 775 Diet GPLC + 1% CO

Test Life feeding Phase Test Dose .001% Pb 10 PPM Days {Test 741 / Recovery ———

H. 4154
No. 69963
MR No. 787

Observations: 5/1 Solid mass left perianal area ½"

Weights
Initial 79
Intermediate 356
Final 705
T.I. E Miller
Ref. MR-787

Killed 5/1/67
Died ——— Method CO2
Survival: d ___ h ___ m ___
P.M. Time ———
Change ———

General Condition Chromo eyes, rotabout

KILLED

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.70			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.064		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.039	(2)	
Lungs	1.75			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.30	(1)		Es./Stom.	2.25			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.		(3)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale brown, lobular markings prominent.

(2) Hypertrophy, dark red fauces at eye 2mm ø

(3) Small milk packet right upper pectoral area

5-1-67 GSH

Pathologist LM Zwicker

Cause of Death: Exsg. GSH Date 5/1/67

HISTOPATHOLOGY

5/1/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003971

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69966
MR No. 787

Animal Rat Strain CR-CD Sex ♀ B.D. Age 3/17/65 232 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase Test Dose H# 4154 0.001% Br. II Days Test 197 Recovery

Observations: none

Weights
Initial 103
Intermediate
Final 392

T.I. Eliz. Hutton
Ref. MP-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.32			(Thym.)/N.F.	0.33		
(Br.)/Sp.C.	1.90			T./Ov.				Thyr./P.T.			
(Hrt.)/B.V.	1.10			Epd./Fim.				Adren.	0.062		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.016		
Lungs	1.45			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	11.90			Es./Stom.				Bo./B.M.			
Spleen	0.5✓			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist G M Zuckerman MR 11-3-65 Date 11-3-65

HISTOPATHOLOGY

PF 11-4-65

Pathologist
Date

DUP040003972

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69970' 970
MR No. 787

Animal Rat Strain CFE-CD Sex ♀ Age 406 days Diet GP2C + 1% CO

Test 2yr feeding Phase test Dose Gp II .001% Pb Days Test 372 Recovery —

Observations:

Weights
Initial 103
Intermediate 401
Final 515
T.I. E. Kitler
Ref. Lead Acetate 2yr study

Killed 4-27-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time — Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.99	(2)		(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.00			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.23			Epd./Fim.				Adren.	(1) .067		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.018		
Lungs	1.23			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	17.22			Es./(Stom.)	2.18			Bo./B.M.			
Spleen	0.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) small dark focus on right adrenal.

(2) Hydronephrosis rt

4-27-66
O.H.
Pathologist Dm Zuckler
MAR Date 4-27-66
4-27-66

Cause of Death:

HISTOPATHOLOGY

BH
4/28/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003973

NECROPSY RECORD

Material Pb Acetate Lot #.001% Pb Excipient ———

H. 4454
No. 69977
MR No. 787

Animal Rat Strain CFR-CD Sex ♀ Age 581 Days Diet GPLC+1% CO

Test 2yr. feeding Phase Test Dose .001% 10PPM Days Test 541 Recovery ———

Observations: none

Weights
Initial 111
Intermediate 327
Final 460
T.I. C Nicklas
Ref. MR-787

Killed Died KILLED Method CH_2Cl_2 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.41			Thym./N.F.			
Br./Sp.C.	2.09			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.32			Epd./Flm.				Adren.	.067		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.020		
Lungs	1.25			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.6			Es./Stom.	2.02			Bo./B.M.			
Spleen	.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

10-19-66
MR William C. Krauss
Pathologist
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

E.H.
10/24/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003974

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ——

Animal Rat Strain Car CD Sex F Age 778 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days

H. 41574
No. 69981
MR No. 787

Test 744
Recovery

Observations:

Weights
Initial 99
Intermediate 311
Final 355
T.I. 8 Miles
Ref. MR: 787

Killed KILLED CHL 5-4-67
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition WD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.45			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.10			Epd./Fim.				Adren.	0.068		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.020	0	
Lungs	1.46			Pr./Ut.				Sal./Lac.			
L. N.	—			Bl./Ur.				N./M./F.			
Liver/G.B.	9.70			Es./Stom.	1.50			Bo./B.M.			
Spleen	0.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Osmall dark red focus at eye 1mm

5-4-67 CHL

Pathologist J.M. Zwicker

Cause of Death: OSF. Date 5-4-67

HISTOPATHOLOGY

CHL 5-4-67

5 IV 67

Pathologist

Date

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

H. 4454
No. 70013
MR No. 787

Animal Rat Strain CBR·CD Sex F Age 776 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days {Test 743 / Recovery

Observations:
4/18 multilobulated masses posterior to left kidney

Weights
Initial 90
Intermediate 350
Final 585
T.I. E Mills
Ref. MR: 787

Killed 5-2-67
Died KILLED Method CO2 Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.55			Thym./N.F.			
Br./Sp.C.	1.99			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.61			Epd./Flm.				Adren. Left	0.139	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.034	(3)	
Lungs	2.00			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	20.50	(1)		Es./Stom.	2.89			Bo./B.M.			
Spleen	0.83			Du./Je./Il.				Sk./App.	8.70	(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale brown calculus marking prominent
(2) left - large dark vascular
(3) dark red focus right anterior pit.
(4) mass mammary type left lower pectoral group 2.5 cm diam.

5-3-67 CSH.

Cause of Death:

Pathologist GM Zurcher E.M. CSH. Date 5-6-67

HISTOPATHOLOGY

RPP 5 12 67

Pathologist
Date

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ———

II
H. 4154
No. 70015
MR No. 787

Animal Rat Strain CFR-CD Sex F Age 667 Days Diet 6 PLC + 1% CD

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days Test 633 Recovery

Observations:
1-13 moribund, emaciated

Weights
Initial 98
Intermediate 336
Final 472
T.I. E-Mule
Ref. HR-787

Killed 1-13-67
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above; slight red-brown discharge from vagina; chromo around both eyes, both eyes

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.25			(Thym.)/N.F.			
(Br.)/Sp.C.	2.04	(1)		(T.)/Ov.	—			Thyr./P.T.			
(Ht.)/B.V.	2.00			Epd./Fim.				Adren.	0.103		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.460	(5)	
Lungs	1.45			Pr./(Ut.)		(4)		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	18.98	(2)		Es./(Stom.)	2.68	(3)		Bo./B.M.			
Spleen	0.93			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) ventral surface compressed, upwards by pit. mass

(2) yellowish-tan, slightly swollen with rounded margins, friable.

(3) small area (focal) of erosion in squamous mucosa

(4) right uterine horn, posterior half swollen with "plug" of firm, dark red-brown to tan material, two small (3mm dia) yellow focal areas within uterus and containing yellowish translucent fluid. MRC 1-13-67

Pathologist William C. Krause

Cause of Death:

Date 1-13-67

HISTOPATHOLOGY

(5) pit. mass, 1.1 cm X .6 cm X .7 cm high, semi-firm red-brown with some tannish mottling.

RH 1/16/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003977

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 70027
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 486 days Diet GP + C + 1% CO

Test 2yr. feeding Phase Test Dose Gp II .001% Pb Days Test 372 Recovery

Observations:

Weights
Initial 103
Intermediate 365
Final 460
T.I. E. Miles
Ref. Pb Acetate 2 yr study

Killed 4-27-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.43			(Thym.)/N.F.			
(Br.)/Sp.C.	1.95			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.09			Epd./Fim.				Adren.	.077		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.021		
Lungs	1.31			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	13.78 .68 bmg.			Es./(Stom.)	2.07			Bo./B.M.			
Spleen	.68 gm.			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

Cause of Death:

Pathologist Gm Zuicker
MMR 4-27-66 Date 4-27-66

HISTOPATHOLOGY

SFP 4/28/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003978

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 41534
No. 70040'
MR No. 787

Animal Rat Strain CR-CD Sex ♀ Age 406 days Diet GPLC + 1% CO

Test 2yr. feeding Phase test Dose Gp II - .001% Pb Days Test 372 Recovery ———

Observations: Solid moveable mass, posterior to the left foreleg 1½" in diameter - Necrotic surface

Weights
Initial 93
Intermediate 460
Final 628
T.I. E. Miles
Ref. Pb Acetate 2yr. Study

Killed 4-27-66
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ———

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.31	3		(Thym.)/N.F.			
(Br.)/Sp.C.	2.00			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	1.30			Epd./Fim.				Adren.	0.101	1	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.025		
Lungs	1.62			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	23.95			Es./(Stom.)	2.70			Bo./B.M.			
Spleen	1.11			Du./Je./Il.				Sk./App. Mass	72.2	2	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- Several 2mm circ brown foci over surface both adrenals

2- Mass was firm; Cut surface tan-brown; Ulcerated surface with scab.

3- 2x3mm grey somewhat wedge shaped focus on surface; Penetrated about 3-4mm deep on one kidney.

Cause of Death:

Pathologist Lem Zwicker
MR 4-27-66 Date 4-27-66

HISTOPATHOLOGY

SH 4/28/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003979

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 41574
No. 70041
MR No. 787

Animal Rat Strain CBR-CD Sex ♀ Age 406 days Diet GP2C + 1% CO

Test 2yr. feeding Phase test Dose Gp II .001% Pb Days Test 371 Recovery

Observations:
Teeth cut frequently

Weights
Initial 123
Intermediate 365
Final 420

T.I. E. Miles
Ref. Pb-Acetate Exp. study

Killed 4-27-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.84			(Thym./N.F.)			
(Br./Sp.C.)	2.15			T./Ov.	(1)	(1)		Thyr./P.T.			
(Ht./B.V.)	1.30			Epd./Fim.				Adren.	0.104		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0.022		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	13.28			Es/(Stom)	2.18			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.		(2)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Cystic ♀

(2) Milk products in perineal area, both sides.

Pathologist C.M. Zurcher
MAR Date 4-28-66
4-27-66

Cause of Death:

HISTOPATHOLOGY

SH
4/28/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003980

NECROPSY RECORD

Material Pb Acetate .001% Pb 4pt Excipient ———

Animal Rat Strain CHR-CD Sex ♀ Age 581 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 547 Recovery ———

H. 4454
No. 70047
MR No. 187

Observations: none

Weights
Initial 93
Intermediate 365
Final 610
T.I. E. Miller
Ref. MR-187

Killed 10-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time ——— Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.50			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	.067		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.021	1.	
Lungs	1.35			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.63			Es./Stom.	2.40			Bo./B.M.			
Spleen	.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 1 mm wide stained, surrounding the pars nervosa

10-19-66
Pathologist William C. Krauss
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

WM
10/24/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003981

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

Animal Rat Strain Sherman Sex F Age 779 Diet 8PLC + 1% Co

Test 2yr feeding Phase Test Dose .001% Pb 10 ppm Days Test 745 Recovery

H. 4454
No. 70050
MR No. 787

Observations:

Weights
Initial 108
Intermediate 385
Final 910
T.I. E Miller
Ref. MP. 787

KILLED

Killed 5/5/67
Died Method CHCl3 Survival: d h m
P.M. Time
Change
General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.55			Thym./N.F.			
Br./Sp.C.	2.2			T./Ov.				Thyr./P.T.			
Ht./B.V.	2.0			Epd./Fim.				Adren.	.107	(2)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.028		
Lungs	1.78			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.1	(1)		Es./Stom.	2.75			Bo./B.M.			
Spleen	1.03			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Pale brown, lobular markings prominent, several dark red foci scattered, 0.5 - 1.5 mm dia.
2. Mottled, dark red-brown, large

5-5-67
GHH
bnb Pathologist GM Zwicker
SER Date 5/6/67

Cause of Death:

HISTOPATHOLOGY

GHH 5/9/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003982

NECROPSY RECORD

Material Lead Acetate CP II Excipient

H. 4154
No. 700521
MR No. 787

Animal rat Strain CRL-CD Sex ♀ Age 124 days Diet GPLC + 1% Co

Test 2-yr. feeding Phase Test Dose .001% (10ppm) Pb CP II Days Test 93 Recovery

Observations:

Weights
Initial 115
Intermediate
Final 294
T.I. Jean Carew
Ref. MR-787

KILLED

Killed 7-22-65 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.81			(Thym.)/N.F.	0.61		
(Bl.)/Sp.C.	1.95			T./Ov.				Thyr./P.T.			
(Ht.)/B.V.	0.91			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015		
Lungs	1.48			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	10.01			Es./(Stom.)	1.25			Bo./B.M.			
Spleen	0.47			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-22-65
G.H.L.
Pathologist William C. Krauss
mtk 7-22-65 Date 7-22-65

Cause of Death:

HISTOPATHOLOGY

E.P.
7-23-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO. PINK—TOXICOLOGY, GROSS

DUP040003983

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 70055
MR No. 787

Animal Rat Strain CRL-CD Sex ♀ Age 5D. 3/17/65 Diet GPLC + 1% Ca CO

Test 2 yr. feeding Study Phase Test Dose H# 4154 0.001% Pb Gr. II Days {Test 197 / Recovery

Observations: None

Weights
Initial 102
Intermediate
Final 348
T.I. Chg. Not Det.
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.40			Thym./N.F.	0.30		
Br./Sp.C.	1.85			T./Ov.				Thyr./P.T.			
Ht./B.V.	1.00			Epd./Fim.				Adren.	0.084		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.010		
Lungs	1.73			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.90			Es./Stom.				Bo./B.M.			
Spleen	0.61			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Cause of Death:

Pathologist GM Zurcher
MR 11-3-65 Date 11-3-65

HISTOPATHOLOGY

PP 11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003984

NECROPSY RECORD

Material Lead Acetate Excipient ———

Animal Rat Strain CRL-CD Sex ♀ Age 406 days Diet 4% PLC + 1% Ca

Test 2yr. Feeding Phase test Dose 4% PLC .001% Pb Days Test 372 Recovery

H. 4154
No. 70058
MR No. 787

Observations:

Weights
Initial 105
Intermediate ~~460~~ 535
Final 660
T.I. E. Mules
Ref. Pb Acetate 2yr. study

Killed 4-27-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.60			(Thym.)/N.F.			
(Br.)/Sp.C.	2.23			T./Ov.				Thyr./P.T.			
(Hy.)/B.V.	1.55			Epd./Fim.				Adren.	.076	(2)	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.029	(1)	
Lungs	1.64	(3)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	22.80			Es./(Stom.)	2.30			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one small dark focus on eye of pit.

(2) one small dark focus on right adrenal

(3) right apex + right middle lobes consolidated,

4-27-66
O.H.
Pathologist G. M. Zuricker
IMS 4-27-66 Date 4-27-66

Cause of Death:

HISTOPATHOLOGY

G.M.Z.
4/28/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003985

NECROPSY RECORD

Material Lead Acetate Gp II Excipient —

H. 4454
No. 70091
MR No. 787

Animal Rat Strain CBL-CD Sex F Age 548 Days Diet 3# GPLC + 1% Ca

Test 2yr. feeding Phase Test Dose .001% Pb Days Test 514 Recovery

Observations:
Continuous weight loss

Weights
Initial 74
Intermediate 421
Final 255 9/12 Lbs.
T.I.
Ref.

FOUND DEAD

Killed
Died Found 9/16/66 Method
Survival: d h m
P.M. Time
Change advanced
General Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./(Abd)		3		Kidney		2	✓	Thym./N.F.			
Br./Sp.C.			✓	T./Ov.				Thyr./P.T.			✓
Ht./B.V.			✓	Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			✓
Lungs			✓	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.			✓	Bo./B.M.			
Spleen			✓	Du./Je./Il.			✓	Sk./App.			
Pancreas		1	✓	Ce./Co./Re.				Ey/Ea/No/Mo			

1. Red nodules, 2 mm in diameter, suggestive of arteritis.
2. Enlarged and nodular
3. Blood clots found in peritoneal cavity

Pathologist
Date 9-16-66

Cause of Death:

HISTOPATHOLOGY

D

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003986

NECROPSY RECORD

Material Pb acetate, Hyd. Excipient —

Animal Rat Strain CR:CD Sex ♀ Age 6 wk Dup. Diet GPLC+1% CO

Test 2yr feeding Phase Test Dose .05% Pb 500 ppm Days Test 610 Recovery

H. 415-4
No. 89766
MR No. 787

Observations:

Large mass 5" dorsolateral anterior to right hind leg.

KILLED BE

Killed 12-21-66 Survival: P.M. Time

Died Method CHL3 d h m Change

Weights
Initial 113
Intermediate 580
Final 1146
T.I. E. Wilson
Ref. MR 787

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.95			Thym./N.F.	—		
Br./Sp.C.	2.06			T./Ov.	—			Thyr./P.T.			
Ht./B.V.	1.53			Epd./Fim.				Adren.	0.102	3	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.033	4	
Lungs	1.68			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	39.13	1		Es./Stom.	2.32			Bo./B.M.			
Spleen	1.48	2		Du./Je./Il.				Sk./App.	520.00	5	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Large pale, lobular markings prominent, edges rounded, left.
2) Large dark
3) Mottled red-brown, ↓ heavy
4) Hypertrophic
5) Large nodular mass, semi-firm - grey - red, partly necrotic, anterior to right hind limb (14.5 X 9.0 X 5.5 Cm)

12-21-66
C.H.L. ✓
Pathologist William C. Krauss
Date 12-21-66.

Cause of Death

HISTOPATHOLOGY

9P/
12/27/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003987

NECROPSY RECORD

Material: Control Lot H 4154 Excipient:

H. 4154
No. 6721
MK No. 797

Animal: Rat Strain: CAR CD Sex: M Age: 748 Days Diet: 6PLC + 1% CO

Test: 2 yr feeding Phase: Test Dose: Control GOI A Days: Test 716 Recovery

Weights
Initial 103
Intermediate 532
Final 415
T.I. Killed
Rel. 767

Observations:
Continued wgt loss some 1-3
4/5 pairs disturbed
Urine - almost colorless

KILLED
4/4/4-67 SE

Killed [redacted] Died [redacted] Method CHCl3 Survival: d h m P.M. Time Change

General Condition: thin animal

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	9.57	(3)		(Thym.)/N.F.	—	(5)	
(Sp.)/Sp.C.	2.20			T./Ov.	1.69	(4)		Thyr./P.T.			
(Ht.)/S.V.	2.10	(1)		Epd./Fim.				Adren.	0.137	(6)	
Tr./La./Br.				S.V./P.T.				(Pit.)/Pin.	0.018		
Lungs	2.40	(2)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./P.			
(Liver)/G.B.	19.66			Es./(Stom.)	3.36			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) aorta slightly rigid / severe arteritis throughout coronary vessels
(2) right middle lobe hemorrhagic consolidation anteriorly
(3) both kidneys pale tan, granular + cystic
(4) both testes small
(5) atrophied

Cause of Death:

Pathologist: GM Zuercher
Date: 4-6-67

HISTOPATHOLOGY

(1) Pale + large

GM
4/10/67

Pathologist:
Date:

WHITE—PATHOLOGY, PINK—TOXICOLOGY, BLUE—TOXICOLOGY, GOLD

DUP040003988

NECROPSY RECORD

Material Pb Acetate Lot E .05% Pb Excipient —

Animal Rat Strain CR:CD Sex ♂ Age 529 Days Diet GPLC + 1% Co

Test 2yr feeding Phase Test Dose .05% Pb 500 PPM Days

Observations: weight loss from 7/27/66
Swollen glands in neck 10/5/65

H. 4154
No. 67755
MR No. 787

Test 545
Recovery

Weights
Initial 95
Intermediate 750
Final 938

T.I. Ea Nelson
Ref. MR-237

Killed 10-17-66 SD
Died KILLED Method CHCl3

Survival: d: h: m:

P.M. Time
Change

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	7.69	③	3	Thym./N.F.	—		
Br./Sp.C.	2.20			T./Ov.	4.21			Thyr./P.T.			
Ht./S.V.	2.02			Epd./Fim.				Adren.	.092		
Tr./La./Br.			V	S.V./F.T.				Pit./Pin.	.018		
Lungs	22.29	①	1	Pr./Ut.				Sal./Lac.			
L.N.		②		Bl./Ur.				N./M./F.			
Liver/G.B.	22.90			Es./Stom.	3.20			Bo./B.M.			4
Spleen	1.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Abscesses involving all lobes right side, and median lobe, consolidated with adhesions to thorax and diaphragm.

② Enlarged + reddened

③ Cyst - right kidney 2½ mm in diameter.

10-17-66
O.H.
Pathologist William C. Krause

Cause of Death:

M.S. 10-17-66 Date 10-17-66

HISTOPATHOLOGY

1. Bronchopneumonia +++
2. Tracheitis +++ G.P.
3. Kid: Glomerulonephritis, chronic +++; Tubules dilated & fibrous +++; 10/19/66
interstitial lesions; hyaline casts +++; fibrosis +++;
lymphoid cell foci ++.
4. Bone Marrow hyperplasia +

Pathologist G.P.
Date 1/17/67

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040003989

NECROPSY RECORD

Material Lead Acetate Excipient —

#154 (4)
H. ~~B 199 D~~
No. D 165
MR No. 13-C-1

Animal Dog Strain Beagle Sex ♂ Age 6-7yrs Diet
6-8-66

Test Phase Test Dose 140mg/kg Lead Acetate Days 6-2,3,4-66 2mg/kg Lead Ac.

Observations: Died during test

Test
Recovery

Weights
Initial
Intermediate
Final
T.I.
Ref.

FOUND DEAD Survival: P.M. Time
ed 6-8-66 Method d h m Change Very slight

General Condition Flaccid, small Cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
hor./Abd.				Kidney (2)	42.70			Thym./N.F.			
r./Sp.C. (6)	68.10			T./Ov. (4)	14.50			Thyr./P.T.	0.70		
t./B.V.	65.70			Epd./Fim.				Adren.	1.20		
./La./Br.				S.V./F.T.				Pit./Pin.	0.52		
ngs	126.60			Pr./Ut.	7.20			Sal./Lac.			
N.				Bl./Ur.	5.20			N./M./P.			
ver/O.B. (1)	226.70			Es./Stom.				Bo./B.M.	0		
leen (5)	23.00			Du./Je./Il.	(3)			Sk./App.			
ncreas	9.70			Ce./Co./Re.				Ey/Ea/No/Mo			

ver nasal mites in left frontal sinus. two in right frontal sinus
lfem mucosa reddened; nearly void of ingesta.
pleen has small raised cyst-appearing structure on medial surface
estes small
'orsal surface of brain → focal white scarlike areas on the pia layer.
~~ref course to cut.~~
addening of renal papillae (bilateral); course to cut.

e of Death:

Pathologist Gm Zuckerman
C.J.F. Date 6-8-66

OPATHOLOGY

8/3
1/11/66

DUP040003990

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ———

H. 41574
No. 69564
MR No. 787

Animal Rat Strain CR-CD Sex M Age 735 Days Diet GPLC + 1% CO

Test 2yr Feeding Phase Test Dose .001% Pb 10 PPM Days Test 701 Recovery

Observations: Continuous weight loss since 2-14-67
3/14 left cheek swollen - mass approx ½" diam.
Small abcess on left hind foot
3/22 Left eye protruding, pallor, mouth bleeding
Stained perineal area (black)

KILLED

Weights
Initial 116
Intermediate 590
Final 538
T.I. E Miller
Ref. MR 787

Killed 3-22-67 Survival: P.M. Time ——— General Condition as above.
Died ——— Method CHCl3 d ——— h ——— m ——— Change ———

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.80			Thym./N.F.	—		
Br./Sp.C.	2.24			T./Ov.	2.21	1		Thyr./P.T.			
Ht./B.V.	1.39			Epd./Fim.				Adren.	0.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	2.13			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.		2	
Liver/G.B.	11.15			Es./Stom.	2.13			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.	1.95	3	
Pancreas				Ce./Co./Re.				Ey./Ea/No/Mo		4	

1) Small + soft.
2) Deep seated abscess, left masseter.
3) Mass - next to left salivary - semi firm, medium brown, 1.5 Cm. dia
4) Left orb - ruptured - caked with blood.

Pathologist CH & William C. Krause
Date 3-22-67

Cause of Death:

HISTOPATHOLOGY

CH
3/31/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003991

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 41454
No. 69574
MR No. 787

Animal Rat Strain CHR CD Sex M Age 777 Diet GPLC + 10% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 787 Recovery

Observations:
Continuous wgt loss from 12-20-66
3/14/67 abscess on both hind legs

Weights
Initial 123
Intermediate 710
Final 840
T.I. E Wales
Ref. MR-787

KILLED

Killed 4-27-67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition Bilateral ulcerated callouses on hind legs.

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.45	(2)		Thym./N.F.			
Br./Sp.C.	3.40			T./Ov.	3.70			Thyr./P.T.			
Ht./B.V.	3.40			Epd./Fim.				Adren.	0.114	(6)	
Tr./La./Br.				~~L.V./F.T.~~		(3)		Pit./Pin.	0.024	(7)	
Lungs	2.0			~~R./Ut.~~		5		Sal./Lac.			
L. N.				~~Bl./Ur.~~		(4)		N./M./F.			
Liver/G.B.	22.75			Es./Stom.	3.68			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) 2mm raised focus of left anterior pituitary; pit. grossly enlarged & heavy
(2) heavy, slightly enlarged; cortex to section tan-brown; pelvis small calculi.
(3) abscess - contains green coarse purulent material
(4) mucosa remarkably thickened, prominent, red; filled w various size calculi.
(5) abscess contains green purulent exudate.
(6) one mm focal cyst formation in rt side.

Cause of Death:

Pathologist GM Zuckes
CIS Date 4-28-67

HISTOPATHOLOGY

GS 5.11.67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003992

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 41154
No. 69576
MR No. 787

Animal Rat Strain CR:CD Sex M Age 769 Days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days { Test 735 / Recovery

Observations: 4/4/66 blood in urine
Continuous wgt loss since 1-3-67
3/14 solid moveable mass on rump 1" necrotic surface

Weights
Initial 73
Intermediate 682
Final 798
T.I. E Mills
Ref. MR 787

Killed 4-25-67
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition 35cm circular mass on rump

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.83	①		Thym./N.F.			
Br./Sp.C.	2.35			T./Ov.	4.70			Thyr./P.T.			
Ht./B.V.	2.20			Epd./Fim.				Adren.	0.083		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	2.33			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.85			Es./Stom.	2.78			Bo./B.M.			
Spleen	1.40			Du./Je./Il.				(Sk.)/App.		2	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① hydronephrosis right kidney; posterior pole left kidney cystic; also hydronephrosis.

2) Abscess - inactive

4-25-67
Pathologist GM Zwicker
Cause of Death: C.F. Date 4-25-67

HISTOPATHOLOGY

5-10-67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003993

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient —

H. 4154
No. 69582
MR No. 787

Animal Rat Strain CR·CD Sex M Age 77 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 737 Recovery

Observations: Continuous wt loss from 12-6-66

Weights
Initial 115
Intermediate 830
Final 978
T.I. Cumulative
Ref. MR-787

KILLED

Killed 4/27/67 Survival: P.M. Time
Died Method $CHCl_3$ d h m Change

General Condition slightly obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.70	(3)		Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.	4.08			Thyr./P.T.			
Ht./B.V.	2.55			Epd./Fim.				Adren.	0.079		
Tr./La./Br.		(2)		S.V./F.T.				Pit./Pin.	0.016		
Lungs	2.90			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	27.70			Es./Stom.	3.60			Bo./B.M.			
Spleen	1.50	(4)		Du./Je./Il.				Sk./App.		(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) two very small mild pockets in left axillary area

(2) hyperplasia marked

(3) heavy, coarse deposit, discolored pale tan - brown large

(4) large - white connective tissue adherent to capsule surface

Cause of Death:

Pathologist [signature] Date 4/28/67

HISTOPATHOLOGY

GLF
5.10.67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003994

NECROPSY RECORD

Material Lead Acetate Excipient

H. 41154
No. 69592
MR No. 787

Animal Rat Strain CRL-CD Sex ♂ ~~Age~~ B.D. 3/17/65 Diet

Test 2yr. feeding Study Phase test Dose H# 41154 0.001 % Bb Days Test 196 Recovery

Gr II

Observations: none

Weights
Initial 131
Intermediate
Final 621
T.I. Ely. Nulter
Ref. MR-787

Killed 11-2-65 Survival: P.M. Time General Condition NAD
Died KILLED Method CHCl3 d h m Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.65			Thym./N.F.	0.45		
Bd./Sp.C.	2.30			T./Ov.	3.19			Thyr./P.T.			
Ht./B.V.	1.59			Epd./Fim.				Adren.	0.051		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	1.89			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	18.11			Es./Stom.				Bo./B.M.			
Spleen	0.79			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

11-2-65
G.Zbl.
Pathologist Lem Zuricker
MAR 11-2-65 Date 11-2-65

Cause of Death:

HISTOPATHOLOGY

gff
11-3-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003995

NECROPSY RECORD

Material: Lead Acetate 1% Excipient: —

Animal: Rat Strain: Chl-CD Sex: ♂ Age: 564 Days Diet: GPLC + 1% ad

Test: 2yr feeding Phase: test Dose: .001% Pb 10 PPM Days: Test 520, Recovery

H. 44524
No. 67601
MR No. 787

Observations: continuous weight loss
10/3/66 pallor, moribund

Weights: Initial 126, Intermediate 755, Final 565
T.I. E-Miles
Ref. MR-787

KILLED

Killed / Died: Dec. 9/66 Method: Survival: d h m P.M. Time: Change:

General Condition: as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.80			Thym./N.F.	—		
Br./Sp.C.	2.15	1		T./Ov.	0.84	3		Thyr./P.T.			
Ht./B.V.	1.44			Epd./Fim.				Adren.	0.052		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.307	4	
Lungs	1.83			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	11.61	2		Es./Stom.	2.29			Bo./B.M.			
Spleen	0.43			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Base compressed dorsally - re-pituitary mass; Pale.

2) Pale

3) Severe atrophy - bilateral

4) Large brown mass - 1.2 x 0.6 x 0.5 Cm, firm.

10-3-66
GZ
Pathologist: Gm Zuckerman
Date: 10-4-66

Cause of Death:

HISTOPATHOLOGY

GZ
10/4/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003996

NECROPSY RECORD

Material Lead Acetate Excipient

H. 41154
No. 29807
MR No. 787

Animal Rat Strain CRL-CD Sex ♂ Age B.D. 3/17/65 Diet GPLC + 1% CO
GVII

Test 2yr. feeding Study Phase Test Dose H # 4154 0.001% Days Test 196 Recovery

Observations: none

Weights
Initial 123
Intermediate
Final 633
T.I. Chi. Nutr
Ref. MR - 787

Killed 11-2
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.41			(Thym.)/N.F.	.50		
(Br.)/Sp.C.	2.20			(T.)/Ov.	3.20			Thyr./P.T.			
(Ht.)/B.V.	1.55			Epd./Fim.				Adren.	0.060		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.012		
Lungs	1.91			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	17.75			Es./Stom.				Bo./B.M.			
Spleen	0.82			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Pathologist Gm Zurcher
MR 11-2-65 Date 11/2/65

Cause of Death:

HISTOPATHOLOGY

GH
11-3-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003997

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 4454
No. 69620
MR No. 787

Animal Rat Strain CBR-CD Sex M Age 769 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 735 Recovery

Observations: none visible

Weights
Initial 99
Intermediate 675
Final 910

T.I. E Miller
Ref. MR 787

Killed 4-25-67
Died KILLED Method $CHCl_3$

Survival: d h m

P.M. Time
Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.80			Thym./N.F.	—		
Br./Sp.C.	2.40			T./Ov.	3.93			Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.				Adren.	0.058		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.30			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.46	D		Es./Stom.	2.90			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

D one 0.5cm raised, yellow, round area; firm - left lateral lobe

4-25-67
Pathologist Sam Zwicker
Date 4-25-67

Cause of Death:

HISTOPATHOLOGY

5-10-67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003998

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 696221
MR No. 787

Animal Rat Strain CR-ED Sex ♂ Age 404 days Diet GPLC+1% CO

Test 2yr-Feeding Phase test Dose Gp II .001% Pb Days Test 371 Recovery

Observations:

Weights
Initial 111
Intermediate 698
Final 808
T.I. E. Miles
Ref. Pb Acetate 2yr study

KILLED

Killed 4-25-66
Died ——— Method $CHCl_3$ Survival: d h m P.M. Time ———
Change ———
General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			(Thym.)/N.F.			
(Pit.)/Sp.C.	2.2			(T.)/Ov.	3.51			Thyr./P.T.			
(Ht.)/B.V.	1.62			Epd./Flm.				Adren.	.058		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.015		
Lungs	1.86			(Pr.)/Ut.		(✓)		Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver) G.B.	~~2.95~~ 2.29			Es./(Stom.)	2.99			Bo./B.M.			
Spleen	.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Denlarged prostate, bilateral

Cause of Death:

Pathologist L.M. Zucker
MAR Date 4-26-66
4-25-66

HISTOPATHOLOGY

S/F
4/27/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040003999

NECROPSY RECORD

Material Pb Acetate GpII .001% Pb Excipient ———

H. 4154
No. 69633
MR No. 787

Animal Rat Strain CFE CD Sex M Age 769 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days Test 735 Recovery

Observations: none visible

Weights
Initial 121
Intermediate 715
Final 1025
T.I. E Miller
Ref. MR-787

Killed 4-25-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Obese

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.40			Thym./N.F.			
Br./Sp.C.	2.50			T./Ov.	3.70			Thyr./P.T.			
Ht./B.V.	2.21			Epd./Fim.				Adren.	0.090		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.~~010~~	(1)	
Lungs	2.31			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.50			Es./Stom.	3.40			Bo./B.M.			
Spleen	1.05			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) dark red vascular mass, 4mm diameter

4-25-67
Pathologist E M Zwicker
Cause of Death: E.M. Date 4/25/67

HISTOPATHOLOGY

8/S
5.10.67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004000

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 69 641
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet GPLC+1% CO

Test 2yr. Leaching Phase test Dose Gp II .001% Pb Days Test 371 Recovery

Observations:

Weights
Initial 106
Intermediate 653
Final 735
T.I. P. Mills
Ref. Pb acetate 2yr. study

KILLED

Killed 4-25-66
Died ——— Method CHCl3 Survival: d h m P.M. Time ———

General Condition Slightly ~~HHD~~ obese bmr.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.05	(1)		Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.	3.35			Thyr./P.T.			
Ht./B.V.	1.85			Epd./Fim.				Adren.	0.054		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.020		
Lungs	2.02			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.20			Es./Stom.	2.51			Bo./B.M.			
Spleen	.91			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Hydronephrosis, right

4-25-66
O.H.
Pathologist Jan Zuscher
MAR Date 4-25-66
4-25-66

Cause of Death:

HISTOPATHOLOGY

8 21
4/27/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004001

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ——

Animal Rat Strain CR·CD Sex ♂ Age 681 days Diet GPLC + 1% CO

Test 24 - feeding Phase Test Dose .001% Pb 10 PPM Days Test 647 Recovery

II
H. 4154
No. 69643
MR No. 787

Observations:
continuous wgt loss from 9/27/66
1-27-67 moribund

Weights
Initial 119
Intermediate 820
Final 398
T.I. E. H. Mills
Ref. MR 787

KILLED

Killed 1-27-67
Died Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition emaciated, thin; yellowing fur with some fur loss posterior portion of body; chromo both eyes; fur around nose + mouth discolored red-brown.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ← No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.30	(4)		Thym./N.F.	—	(8)	
Br./Sp.C.	2.00			T./Ov.	0.40	(5)		Thyr./P.T.		(8)	
Ht./B.V.	1.60	(10)		Epd./Fim.				Adren.	0.096		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.05	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.81	(2)		Es./Stom.	3.90	(6)		Bo./B.M.		(9)	
Spleen	0.38	(3)		Du./Je./Il.		(7)		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) several whitish to greenish-white, 1mm dia, irregularly shaped, slightly raised foci on surface of all lobes; anterior portion of left lobe was slightly firm and spongy looking.

(2) all lobes were splotchy light & dark red-brown.

(3) spleen very small.

1-27-67 mkb
Pathologist William C. Krauss
Date 1-27-67

Cause of Death:

HISTOPATHOLOGY

(4) both kidneys were dark red brown, quite granular, slightly cystic.

(5) both testicles were atrophied, also thymus.

(6) esophageal mucosa had extensive proliferation; glandular mucosa had multiple red-brown, 1mm dia, foci on surface; stomachs were empty of food.

(7) blood vessels along dorsal wall were nodular (small nodules - arteritis?).

(8) pituitary was enlarged.

(9) bone marrow was pale red-brown; femurs from were very brittle.

(10) aorta enlarged & quite rigid.

9ff
1/30/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004002

NECROPSY RECORD

Material Lead Acetate Gp II Excipient ——

Animal Rat Strain CR-CD Sex ♂ Age 581 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 ppm Days

H. 4154
No. 69651
MR No. 787
Test 547
Recovery

Observations:
Continuous wgt loss from 7/5/66
8/2/66 both eyes opaque appears to be blind

Weights
Initial 104
Intermediate 95-0
Final 492
T.I. Ex-Rilles
Ref. MR-787

Killed 10-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Acebone

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4,28			(Thym.)/N.F.	—		
(Bd.)/Sp.C.	2.10			(f.)/Ov.	3.90			Thyr./P.T.			
(Ht.)/B.V.	1.48			Epd./Fim.				Adren.	0.081		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015		
Lungs	2.00			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	18,68			(Es.)/Stom.	3.48			Bo./B.M.			
Spleen	0.82			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				(Ey.)/Ea/No/Mo		(1)	

(1) bilateral, fitted corneas.

10-19-66 MR Pathologist William C. Rowe

Cause of Death: MR 10-19-66 Date 10-19-66

HISTOPATHOLOGY

RH 10/24/66

Pathologist ——
Date ——

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004003

NECROPSY RECORD

Material Pb acetate Gp II .001% Pb Excipient ———

H. 4154
No. 69663
MR No. 787

Animal Rat Strain CBR CD Sex M Age 770 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 ppm Days {Test 736 / Recovery ———

Observations: intermittent wt loss

Weights
Initial 118
Intermediate 752
Final 995
T.I. C Miles
Ref. MR-787

Killed 4-26-67
Died KILLED Method $CHCl_3$ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition NAD.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.15	(2)		Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.	3.85			Thyr./P.T.			
Ht./B.V.	2.45			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.18			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.80	(1)		Es./Stom.	2.70			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale brown lobular markings.

(2) pale brown, granular

4-26-67
Pathologist GM Zwicker
Cause of Death: CBS Date 4-26-67

HISTOPATHOLOGY

GB
5/10/67

Pathologist ___
Date ___

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004004

...GY RECORD

Material Pb Acetate Hpt .001% Pb Excipient ———

H. 4454
No. 69670'
MR No. 787

Animal Rat Strain Chl. CD Sex ♂ Age 581 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days { Test 547 / Recovery

Observations: Continuous weight loss from 6/21/66

Weights
Initial 124
Intermediate 650
Final 700
T.I. C. Miles
Ref. MR 787

Killed 10-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.92			Thym./N.F.	—		
Br./Sp.C.	2.15			T./Ov.	4.38			Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	0.063		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.016		
Lungs	1.85			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.00	①		Es./Stom.	2.80			Bo./B.M.			
Spleen	0.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① slightly pale, lobular markings prominent

10-19-66 CSW. William C. Rowes
Pathologist
MAR 10-19-66 Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

RH 10/24/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004005

NECROPSY RECORD

Material Pb Acetate GpII .001% Pb Excipient —

Animal Rat Strain Osb·CD Sex M Age 772 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days Test 737 Recovery

H. 4454
No. 69672
MR No. 787

Observations:
Continuous wt loss from 2-14-67
4/18 abcess dorsal side 1"

Weights
Initial 118
Intermediate 688
Final 890
T.I. EN Wiley
Ref. MR-787

KILLED

Killed 4-26-67 Survival: P.M. Time
Died Method CHCl3 d h m Change
General Condition As above (abscess)

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.70			Thym./N.F.			
Br./Sp.C.	2.29			T./Ov.	3.20			Thyr./P.T.			
Ht./B.V.	2.20			Epd./Fim.				Adren. only 1	0.024		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.038		
Lungs	2.20			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.25			Es./Stom.	3.25			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.		①	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① 3X2.5cm hard & firm, white to brownish tissue

4-26-67
MAR Pathologist EM Zuckes
BMB
CLF Date 4-28-67

Cause of Death:

HISTOPATHOLOGY

968
5.11.67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004006

NECROPSY RECORD

Material Lead acetate Gp II Excipient —

Animal Rat Strain CR:CD Sex ♂ Age 603 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase Test Dose .001% Pb 10 PPM Days

H. 4154
No. 69695
MR No. 787
Test 569
Recovery

Observations:

Continuous weight loss since 10/4/66
palor, ptosis, ruffled fur 11/10/66
Large mass in area of penis. WCR

Weights
Initial 716
Intermediate 710
Final 700
T.I. E. Miles
Ref. MR-787

Killed 11-10-66
Died KILLED Method

Survival: d h m

P.M. Time
Change

General Condition Distended abdomen

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	10.10	2.		Thym./N.F.			
Br./Sp.C.	2.09			T./Ov.	3.3			Thyr./P.T.			
Ht./B.V.	2.05			Epd./Fim.				Adren.	.154		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.0024		
Lungs	3.6	4.		Pl./Ut.	32.32	1.		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.2			Es./Stom.	2.95			Bo./B.M.			
Spleen	1.62			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. 4½ x 4½ x 5 Cm. firm mass with opaque chalky center involving prostate, Seminal vesicle and bladder. Seminal vesicle open into the mass suggesting the mass is prostatic tissue.

2. Pale yellow, large & soft

3. Small 3mm circular red foci on ventral surface.

Pathologist William C. Rowe
Date 11-10-66

Cause of Death:

HISTOPATHOLOGY

4. Heart, right lung has several pin point foci of mixed granulomatous nodules scattered throughout the parenchyma

9/1
11/18/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004007

NECROPSY RECORD

Material Pb acetate Gp II .001% Pb Excipient ———

Animal Rat Strain CRL:CD Sex M Age 742 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 708 Recovery ———

H. 41574
No. 69902
MR No. 787

Observations:
1-31-67 Solid moveable mass on chest 2"
3-28-67 mass grown to 5"
impaired mobility

Weights
Initial 111
Intermediate 630
Final 1205
T.I. E. Mehlman
Ref. MR-787

Killed 3-29-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change
General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.61	3		Thym./N.F.	—		
Br./Sp.C.	2.35			T./Ov.	3.03			Thyr./P.T.			
Ht./B.V.	1.87			Epd./Fim.				Adren.	0.084		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.015		
Lungs	2.38			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.95	1		Es./Stom.	2.92			Bo./B.M.			
Spleen	1.93	2		Du./Je./Il.				Sk./App.	490.76	4	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pelt brown

2) Large + dark red

3) Lt. granular surface

4) Large, firm, partly necrotic mass. Red, white, brown - posterior to left forelimb. 13.5 × 9.5 × 6 Cm.
(surrounding tissue edematous)

3-29-67
Pathologist E M Zwicker
Date 3-29-67

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-B420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004008

NECROPSY RECORD

Material GP II Lead Acetate Excipient

H. 4154
No. 69706
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .001% (10 ppm) Pb GP II Days Test 91 Recovery

Observations:

Weights
Initial 121
Intermediate
Final 472
T.I. J. Carver
Ref. MR-787

Killed 7-20-65
Died KILLED Method CHCl₃ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.70			Thym./N.F.	0.79		
Br./Sp.C.	1.97			T./Ov.	3.23			Thyr./P.T.			
Ht./B.V.	1.42			Epd./Fim.				Adren.	0.057		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.87	⊘		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	14.48	14.73 mR 7/20/65		Es./Stom.	1.80			Bo./B.M.			
Spleen	0.66			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

⊘ multiple red foci throughout - 0.5 mm to 1.5 mm dia.

Pathologist William C. Krauss
mse 7-20-65 Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

CH 1/1/65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004009

NECROPSY RECORD

Material Pb Acetate Excipient

H. 41154
No. 69711
MR No. 787

Animal Rat Strain CAR-CO Sex ♂ Age 3/12/65 B.D. 300 day Diet .001% Pb in GPLC

Test 2 yr. feeding Study Phase Test Dose 10 PPM Pb Days Test 300 Recovery

Observations: Steady weight loss for 8 weeks, swollen glands in area of the throat, partial use of hind limbs

Weights
Initial 111
Intermediate 612
Final 495

T.I. Olig. Multh
Ref. Pb Acetate - 787 oral

Killed 1-11-66 Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition chromo both eyes, perineal area stained yellowish-brown; jaw abscess; eyes appeared pale pink

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	15.40	(4)		(Thym.)/N.F.	—	(5)	
(Br.)/Sp.C.	2.16			(T.)/Ov.	3.84			Thyr./P.T.			
(Ht.)/B.V.	1.66			Epd./Fim.				Adren.	0.099	(6)	
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015		
Lungs	2.36			Pr./Ut.				Sal./Lac.			
L.N.		(1)		Bl./Ur.				N./M./F.			
(Liver)/G.B.	38.47	(2)		Es./(Stom.)	2.00			Bo./(B.M.)		(7)	
Spleen	17.50	(3)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) entire lymphatic system enlarged and discolored a yellowish-green. (2) liver enlarged, rounded margins, friable, central & dorsal (particularly dorsal) surface speckled with irregular greenish foci, cut surface showed distinct green areas in parenchyma. (3) spleen greatly enlarged, surface showed splotchy greenish areas. (4) bilateral hydronephrosis, both kidneys enlarged with medullary greenish colored surface; cortex discolored greenish, medulla reddened with prominent striations. MRC 1-11-66

Pathologist William C. Krause

Cause of Death: (5) thymus atrophied. (6) adrenals somewhat enlarged, pale with reduplicating. Date 1-11-66

HISTOPATHOLOGY

(7) bone marrow was discolored greenish

Photo taken

EH
1-12-66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004010

NECROPSY RECORD

Material Lead Acetate GP II Excipient

H. 4154
No. 69712
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .00% (10 ppm) Pb GP II Days Test 91 Recovery

Observations:

Weights
Initial 110
Intermediate
Final 508
T.I. J. Coreus
Ref. MR-787

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.03			(Thym./N.F.)	0.83		
(Br./Sp.C.)	2.00			(T./Ov.)	3.81			Thyr./P.T.			
(Ht./B.V.)	1.34			Epd./Fim.				Adren.	0.042		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0.013		
Lungs	1.63			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	15.05			Es./(Stom.)	1.98			Bo./B.M.			
Spleen	0.69			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-20-65
C.V.S.
Pathologist William C. Krauss
MR 7-20-65 Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

RJS 7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004011

NECROPSY RECORD

Material Lead Acetate Excipient

H. 415-4
No. 69723
MR No. 787

Animal Rat Strain CR-CD Sex ♂ S.D. Age 3/17/65 Diet GPhC + 1% CO GAIN

Test 2 yr. feeding Study Phase test Dose H # 4154 0.001 % Days

Test 196
Recovery

Observations: none

Weights
Initial 101
Intermediate
Final 675
T.I.
Ref.

Killed 11-2
Method CHCl3 d h m
KILLED

Survival: P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.68			(Thym.)/N.F.	0.61		
(Br.)/Sp.C.	2.00			(T.)/Ov.	3.72			Thyr./P.T.			
(Ht.)/B.V.	1.57			Epd./Tim.				Adren.	0.046		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.016		
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	19.29	①		Es./Stom.				Bo./B.M.			
Spleen	0.75			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① pale tan liver

(Operator + bladder missing Trim 11-18-65 MAR)

Cause of Death:

Pathologist Jim Zwicker
MAR 11-2-65 Date 11-2-65

HISTOPATHOLOGY

gfl
11-3-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004012

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ——

H. 4454
No. 69735
MR No. 787

Animal Rat Strain CLR-CD Sex M Age 719 Diet 6 PLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 685 / Recovery

Observations: continuous weight loss since 10/11/66

Weights
Initial 100
Intermediate 800
Final 540 2/28
T.I. E. Miller
Ref. NAS-787

FOUND DEAD

Killed 3-6-67 Survival: P.M. Time ? General Condition Rotten cannibalized cadaver
Died —— Method —— d —— h —— m —— Change Day-ador

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes —— No ——
Tissue Saved: Yes ✓ No ——
Histology Follows: Yes —— No ——

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.		1 Pale		Epd./Fim.		2 Pale		Adren.		Pale	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - rigid

2) Partial atrophy

3-6-67
Pathologist Jm Zwicker
Date 3-6-67

Cause of Death:

HISTOPATHOLOGY

DH 3/7/67

Pathologist ——
Date ——

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004013

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

Animal Rat Strain CaR CD Sex M Age 770 Days Diet GPLC + 1% CO

Test Rep feeding Phase test Dose .001% Pb 10 PPM Days

H. 4154
No. 69740
MR No. 784
Test 736
Recovery

Observations:

Weights
Initial 113
Intermediate 655
Final 1090
T.I. E M Miller
Ref. Mill. 787

Killed 4/26/67 Survival: P.M. Time ——— General Condition NAD
Died KILLED Method CO2 d h m Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.68			Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.	2.30	①		Thyr./P.T.			
Ht./B.V.	2.10			Epd./Fim.				Adren.	0.089		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.030		
Lungs	1.80			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.60			Es./Stom.	3.20			Bo./B.M.			
Spleen	0.95			Du./Je./Il.				Sk./App.		②③	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Lft testicle - small, soft, discolored

② Subcutaneous, lobulated white firm tissue

4-26-67
MR Pathologist D M Zucker
bm3 Date 4/26/67

Cause of Death:

HISTOPATHOLOGY

RS
5.10.67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004014

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ———

H. 4454
No. 69749
MR No. 787

Animal Rat Strain CHR-CD Sex M Age 043 Days Diet GPLC+1% CO

Test 2 gp. feeding Stud. Phase Test Dose .001% Pb Days Test 669 Recovery

Observations: pallor razor-back
Continuous weight loss

Weights
Initial 121
Intermediate 255
Final 442

T.I. E. Miles
Ref. MR 787

KILLED

Killed 12-20-66 Survival: P.M. Time ———
Died ——— Method CHL3 d ——— h ——— m ——— Change ———

General Condition Thin, pale, dehydrated.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	8,15	3		Thym./N.F.	—		
Br./Sp.C.	2,40			T./Ov.	1,43	4		Thyr./P.T.			
Ht./B.V.	2,70	1		Epd./Fim.				Adren.	0,090		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0,021		
Lungs	2,31			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24,70	2		Es./Stom.	4,50			Bo./B.M.		5	
Spleen	1,43			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Blood thin, pale. Blue nodules scattered throughout omentum. Entire vascular structure - firm.

2) Pale

3) Pale, granular + cystic. Heavy.

4) Small, soft.

5) Bone structure brittle.

12-20-66 C.H.
Pathologist William C. Krauss
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004015

NECROPSY RECORD

Material Pb Acetate Gpt. .001% Pb Excipient ———

Animal Rat Strain CharLes River Sex M Age 770 Days Diet GPLC + 1% CO

Test 2yr. feeding Phase test Dose .001% Pb 10 PPM Days

H. 4454
No. 69759
MR No. 787
Test 736
Recovery

Observations: None visible

Weights
Initial 110
Intermediate 610
Final 760
T.I. Ex Miles
Ref. MR-727

Killed 4-26-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Firmness of abdomen

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.	26.5	(1)		Kidney	*9.55	(5)		Thym./N.F.			
Br./Sp.C.	2.25			T./Ov.	3.60			Thyr./P.T.			
Ht./B.V.	2.20			Epd./Flm.				Adren.	0.102	(6)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.024		
Lungs	2.70	(2)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	35.42	(3)		Es./Stom.	2.91			Bo./B.M.			
Spleen	10.20	(4)		Du./Je./Il.				Sk./App.	~~2.55~~		
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Large, firm, pale brown mass posterior to lft Kidney 3½ cm. diameter
(2) Slightly pale and hyperinflated
(3) Large, firm, pale brown - minute white foci scattered throughout all lobes
(4) Large dark red-brown, irregularly shaped (possible rupture).
(5) Pale brown, irregularly shaped, several white nodules present
(6) Large

Cause of Death: CHd CSF 4-26-67 Pathologist Gm Zwicker Date 4-26-67

HISTOPATHOLOGY

BJB 5.10.67

* Photographs taken of Kidney and spleen

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004016

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69430
MR No. 787

Animal Rat Strain CR-CD Sex ♂ ~~Age~~ B.D. 3/17/65 Diet GPLC + 1% C.O.

Test 2 yr. feeding Study Phase Test Dose H# 41540, 0.001 % in Yr II Days {Test 196 / Recovery

Observations: none

Weights
Initial 129
Intermediate
Final 692

T.I. Elizabeth Miller
Ref. MD-787

Killed 11-2 Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.81			(Thym.)/N.F.	.67		
(Br.)/Sp.C.	2.12			(T.)/Ov.	3.95			Thyr./P.T.			
(Ht.)/B.V.	1.82			Epd./Fim.				Adren.	0.054		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.015		
Lungs	2.00			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	20.81			Es./Stom.				Bo./B.M.			
Spleen	.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

11-2-65
G.H.D.
Pathologist G.M. Zurick
11-2-65 MR Date 11-3-65

Cause of Death:

HISTOPATHOLOGY

9H
11-3-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004017

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 4154
No. 69451
MR No. 787

Animal Rat Strain CAR·CD Sex M Age 772 Days Diet GPLC + 1% CO

Test 2 yr. feeding Phase test Dose .001% Pb 10 PPM Days { Test 738 / Recovery

Observations: Continued wgt loss from 7/28

Weights
Initial 131
Intermediate 682
Final 978
T.I. E Miller
Ref. NLR·787

Killed KILLED 5-16-67
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition Mod.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.45	③		Thym./N.F.			
Br./Sp.C.	2.35			T./Ov.	4.40			Thyr./P.T.		①	
Ht./B.V.	2.49			Epd./Fim.				Adren.	0.085		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	1.99			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.65	②		Es./Stom.	3.92	④		Bo./B.M.			
Spleen	1.85			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① left - remark large dark red brown - photographs taken - Rt was small. dia. 1.20cm - 5cm Left - irreg. surface - mottled lobes
② disc. pale tan brown coarse section firm
③ gland. mucosa thickened
④ mildly rounded margins, coarse to section
picture taken.

Cause of Death:

Pathologist GM Zwicker
C.S.F. Date 4-28-67

HISTOPATHOLOGY

9 pg
5/16/67

Pathologist ———
Date ———

R-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004018

NECROPSY RECORD

Material Lead Acetate Gp II Excipient

H. 4154
No. 69453
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .001% (10 ppm) Pb Gp II Days Test 91 Recovery

Observations:

Weights
Initial 115
Intermediate
Final 470
T.I. Jan Carew
Ref. MR-787

Killed 7-20-65
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.88			(Thym.)/N.F.	0.70		
(Br.)/Sp.C.	2.08			(T.)/Ov.	3.70			Thyr./P.T.			
(Ht.)/B.V.	1.42			Epd./Fim.				Adren.	0.052		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.011		
Lungs	2.01	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	14.31			Es./(Stom.)	1.74			Bo./B.M.			
Spleen	0.76			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple red foci throughout - ½ mm to 1½ mm dia.

7-20-65
G.H.L.
Pathologist William C. Krauss
MK 7-20-65 Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

EFS
7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004019

NECROPSY RECORD

Material Pb Acetate Hot .001% Pb Excipient ———

H. 4454
No. 094464
MR No. ———

Animal Rat Strain CFE-CD Sex ♂ Age 581 Days Diet GLC+1% CO

Test 2yr feeding Phase Test Dose .001% Pb in H2O Days Test 547 Recovery ———

Observations: ~~[illegible]~~ intermittent weight loss from 6/21/66

Weights
Initial 133
Intermediate 740
Final 700
T.I. E. Miller
Ref. MR-787

Killed 10-19-66
Died KILLED Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.90			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.	L. 1.00	1,		Thyr./P.T.			
Ht./B.V.	1.60			Epd./Fim.	R. 2.31			Adren.	.077		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.020		
Lungs	2.20			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.5			Es./Stom.	2.95			Bo./B.M.			
Spleen	1.1			Du./Je./Il.				(Sk.)/App.	~~[illegible]~~		
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Left testis small and discolored blue

10-19-66
Pathologist MRQ William C. Krause
Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

WEP
6/24/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004020

NECROPSY RECORD

Material Pb acetate Lot II .001% Pb Excipient ———

H. 41324
No. 69483
MR No. 783

Animal Rat Strain CR-CD Sex M Age 607 Days Diet GPLC+1% C

Test 2yr feeding Phase test Dose .001% Pb 10 PPM Days { Test 573 / Recovery ———

Observations:
3/15/66 left testicle appears drawn up into the body
11/14/66 large open mass posterior to rt. forelleg

Weights
Initial 116
Intermediate 730
Final 922
T.I. E. Miller
Ref. MR-787

Killed 11-14-66
Died KILLED Method $CHCl_3$ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition: as above; obese animal

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.08			Thym./N.F.	0.81		
Br./Sp.C.	2.20			T./Ov.	2.07	(1)		Thyr./P.T.			
Ht./B.V.	2.39	(4)		Epd./Fim.				Adren.	0.080		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023		
Lungs	2.50	(5)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.10	(3)		Ey./Stom.	3.20			Bo./B.M.			
Spleen	2.50	(2)		Du./Je./Il.				Sk./App.	122.00	(6)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) left testicle did not descend (appeared to be in an out pocketing of abdom. wall), soft + very small (L = 0.42 gm R = 1.65 gm)

(2) large + somewhat swollen w/rounded margins

(3) many small 1mm to 8mm papule - brown foci (looked like small blisters) over all surfaces of skin

(4) faint white streaking in wall (external) of heart

11-14-66
MK Gm Zwicker
Pathologist
Date 11-18-66

Cause of Death:

HISTOPATHOLOGY

(5) posterior portion of left lobe adhered to diaph.

(6) subcutaneous mass posterior to right foreleg 8cm X 6.5 cm X 4cm, very firm; cut surface showed white tissue with dark red brown mottling throughout (both cuts).

PH
11/15/66

Pathologist ———
Date ———

NECROPSY RECORD

Material Pb Acetate Gp II Excipient ———

Animal Rat Strain Chk·CD Sex M Age 722 Days Diet 6PLC + 1% PO

Test 2yr. feeding Phase Test Dose .001% Pb 10 PPM Days

H. 4154
No. 69500
MR No. 787

Test 683
Recovery

Observations:
none visible

Weights
Initial 133
Intermediate 770
Final 965 3/60

T.I. E. Miller
Ref. NLR-787

FOUND DEAD

Killed ———
Died 3-9-67 Method ———

Survival: d h m

P.M. Time ?
Change 48-hrs

General Condition Obese cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		/		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dull red throughout (P.M. change?)

3-9-67
Gtld.
Pathologist GMZ
Date 3-9-67

Cause of Death:

HISTOPATHOLOGY

PM
3/10/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004022

NECROPSY RECORD

Material Cap II .001% Pb (PO acetate) Excipient —

H. 4154
No. 69504
MR No. 787

Animal Rat Strain CharlesRiver CD Sex M Age 763 Diet GPLC + 1% CD

Test 2yr feeding Phase test Dose .001% Pb 10 ppm Days Test 729 Recovery

Observations: Continuous wt loss from 1-3-67
4118 mass between scapulae 1"

Weights
Initial 116
Intermediate 748
Final
T.I. E. Miller
Ref. MR 787

FOUND DEAD

Killed — Survival: P.M. Time overnight?
Died F.D. 4-19-67 Method — d h m Change advanced

General Condition rigid, clear cadaver; area around nose discolored red-brown; mouth clear

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./S.V.		(1)		Epd./Fim.				Adren.		(4)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.		(3)		N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.		(5)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) aorta slightly rigid; mesenteric vessels nodular (arteritis).

(2) both kidneys were enlarged, light brown, cystic; cut surfaces oozed turbid brownish fluid

(3) bladder greatly distended (4cm x 2.5 cm) with turbid, darkish brown fluid; both ureters were enlarged.

(4) enlarged

4-19-67
DMR
Pathologist GM Zwicker
Date 4-18-67

Cause of Death:

HISTOPATHOLOGY

(5) mass measures 4.5 cm x 3.5 cm x 2 cm, subcutaneous, firm, whitish to reddish tissue.

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004023

NECROPSY RECORD

Material Pb Acetate Gp II .001% Pb Excipient ———

H. 4854
No. 69573
MR No. 787

Animal Rat Strain Hall-CD Sex M Age 733 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 PPM Days Test 699 Recovery

Observations:
Continuous wt loss since 2/20/67
pallor, nonvisual, irreg. respir. 3/20/67

Weights
Initial 113
Intermediate 242
Final 975

T.I. E. X. Miller
Ref. NLR-787

Killed ✓ Survival: P.M. Time General
Died Method d h m Change Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	7.3	4		Thym./N.F.	—	7	
Br./Sp.C.	2.2			T./Ov.	3.8	5		Thyr./P.T.		8	
Ht./B.V.	2.4	1		Epd./Fim.				Adren. L.Ft	.038	9	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.013		
Lungs	20	2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.		6		N./M./F.			
Liver/G.B.	22.1	3		Es./Stom.	2.75			Bo./B.M.			
Spleen	0.8			Du./Je./Il.				Sk./Spp.	3.6	10	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- both chambers flaccid, thin walled; focal areas of loss discoloration; firm tent.
2- multiple small red-brown foci small surfaces
3- coarse to cut; pale tan-brown; mildly rounded margins.
4- rt kidney enlarged; ruptured in several loci on lateral and medial surfaces; hemorrhage and edema of perirenal fat on rt side

Pathologist Dr Zurcher
Cause of Death:
Date 3-20-67

HISTOPATHOLOGY

5- soft
6- distended with pale yellow urine, large mucoproteinaceous like plug completely filling neck of bladder.
7- atrophic with fatty infiltrate
8- rt Parathyroid enlarged
9- rt adrenal involved in Kidney rupture and adhesions.
left adrenal had numerous dark red foci on surface.
10- Small 1cm x 2.0cm x 2.5cm lipid mass in subcutis of back over thoracolumbar area; Encapsulated, easily removed

Pathologist
Date 3/21/67

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004024

NECROPSY RECORD

Material Pb Acetate Hyp II, .001% Pb Excipient —

H. 4454
No. 69515
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 581 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .001% Pb 10 ppm Days Test 547 Recovery

Observations: none

Weights
Initial 108
Intermediate 535
Final 612
T.I. E. Miller
Ref. 787 MR

Killed 10-19-66
Died KILLED Method CHCl3 d h m

Survival:

P.M. Time

Change

General Condition abscess, left perineal region.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.10			(Thym.)/A.F.	—		
(Br.)/Sp.C.	2.29			(T.)/Ov.	4.61			Thyr./P.T.			
(Ht.)/B.V.	1.39			Epd./Fim.				Adren.	0.059		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.019		
Lungs	1.65			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	19.61			Es./(Stom.)	2.31			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				(Sk.)/App.		1	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Abscess - left perineal region.

10-19-66 GM
Pathologist William C. Krauss
MAR 10-19-66 Date 10-19-66

Cause of Death:

HISTOPATHOLOGY

RM
10/24/66

Pathologist ___
Date ___

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004025

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 4154
No. 69523
MR No. 787

Animal Rat Strain CRL-CD Sex ♂ Age 404 days Diet GPLC + 1% Ca

Test 2 yr. feeding Phase Cat Dose Gp II .01% Pb Days Test 371 Recovery

Observations:

Weights
Initial 134
Intermediate 790
Final 910
T.I. E. Miller
Ref. Pb acetate 2 yr study

KILLED

Killed 4-25-66
Died ——— Method $CHCl_3$ Survival: d h m P.M. Time ——— Change ———

General Condition obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.82			(Thym.)/N.F.			
(Br.)/Sp.C.	2.40			T./Ov.	4.20			Thyr./P.T.			
(Ht.)/B.V.	2.18			Epd./Fim.				Adren.	.060		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.020		
Lungs	1.70			(Pr.)/Ut.		(1)		Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	31.73			Es./(Stom.)	3.81			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) prostates enlarged, bilateral.

tissues saved for E.M.

Cause of Death:

Pathologist J.M. Zwickey M.D.
Date 4-25-66
4-25-66

HISTOPATHOLOGY

RJ
4-7-67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004026

NECROPSY RECORD

Material Pb Acetate Lot II .001% Pb Excipient —

Rat Strain CR:CD Sex ♂ Age 581 Days Diet GLC + 1% CO

up feeding Phase Test Dose .001% Pb 10 PPM Days

tions: none

H. 4154
No. 69525
MR No. 787
Test 547
Recovery

Weights
Initial 123
Intermediate 570
Final 760
T.I. E. Miller
Ref. MR-787

10-19-66
LED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

gan	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
bd.				Kidney	3.6			Thym./N.F.			
C.	2.20			T./Ov.	4.0			Thyr./P.T.			
	1.15			Epd./Fim.				Adren.	.042		
/Br.				S.V./F.T.				Pit./Pin.	.014		
	2.10			Pr./Ut.				Sal./Lac.			
				Bl./Ur.				N./M./F.			
G.B.	21.30			Es./Stom.	2.7			Bo./B.M.			
	.80			Du./Je./Il.				Sk./App.			
es				Ce./Co./Re.				Ey/Ea/No/Mo			

AD

10-19-66
Pathologist William C. Reeves
Date 10-19-66

of Death:

PATHOLOGY

SLL
10/24/66

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004027

NECROPSY RECORD

H# 4154

Material Control for Pb Acetate Excipient —

H. 4154 Gp I
No. 69634
MR No. 709

Animal Rat Strain CharlesR Sex M Age 771 Diet GPLC+1%@0

Test 2yr feeding Phase test Dose Control Gp I Days Test 737 Recovery

Observations:
Continuous wt loss from 1-31-67
3/28 mass posterior left foreleg 2" opened
" left shoulder 1"
4/27 mass posterior left foreleg appears to have drained

Weights
Initial 118
Intermediate 740
Final 658
T.I. C. Miller
Ref. MR 781

Killed 4/27/67 Survival: P.M. Time General Condition Obese
Died Method CO2 d h m Change

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	10.40	(3)		Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.	3.60			Thyr./P.T.			
Ht./B.V.	2.90			Epd./Fim.				Adren.	0.112		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.029		
Lungs	2.06			(Pr.)/Ut.		(1)		Sal./Lac.			
L. N.				(Bl.)/Ur.		(2)		N./M./F.			
Liver/G.B.	29.90			Es./Stom.	4.50			Bo./B.M.			
Spleen	1.95			Du./Je./Il.				Sk./App.		(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Prostate enlarged & edematous
(2) Bladder wall edematous thickened
(3) both kidneys pale tan, granular, cystic
(4) two skin lesions as above, under clinical

4-27-67 MAR

Cause of Death: CSF bmb. Pathologist GM Zwicker Date 4/27/67

HISTOPATHOLOGY

Kidney - Nephrosis +++
prostatitis +++
cystitis ++
hyperplasia +++
P.T. - hyperplasia of pars intermedia and pars anterior

Pathologist GD
Date 10 8 69

DUP040004028

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material: Lead Acetate Excipient: ———

H. (C)41541
No. 69687
MR No. 787

Animal: Rat Strain: CBR-CD Sex: ♂ Age: 496 Days Diet: GPLC+1% CO

Test: 2yr. Feeding Phase: Test Dose: Control I Days: Test 392, Recovery ———

Observations: None except on 5/17/66 — moribund, slain and removed ulcer, Chromo,

Weights: Initial 119, Intermediate 602, Final 648

T.I. E. Miller

Ref. MR-787

KILLED

Killed 5-17-66 in reference Survival: P.M. Time ———

Died ——— Method CHCl3 d —— h —— m —— Change ———

General Condition: as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.38			Thym./N.F.	—		
Br./Sp.C.	2.35			T./Ov.	3.15			Thyr./P.T.			
Ht./B.V.	1.68			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.015		
Lungs	1.46			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.90			Es./Stom.	2.09			Bo./B.M.			
Spleen	0.68			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD.

5-17-66
Pathologist: William C. Yuill
Date: 5-17-66

Cause of Death:

HISTOPATHOLOGY

5/18/66

Pathologist ———
Date ———

DUP040004029

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material: Lead Acetate Control Excipient: ———

H. (c) 41534 41531
No. 69649
MR No. 787

Animal: Rat Strain: CFE-CD Sex: ♂ Age: 484 days Diet: GPLC+1% CO

Test: Rep feeding Phase: Test Dose: Control 0.00% Pb Days: Test 450 / Recovery

Observations: pallor, continuous weight loss, emaciated
Chromo around eyes pallor

Weights
Initial 113
Intermediate 102
Final 68
T.I. E. Mile
Ref. MR-787

KILLED

Killed 7-14-66
Died ——— Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition: Pale, lethal, chromo.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.55			Thym./N.F.	—		
Br./Sp.C.	2.18	1		T./Ov.	2.10	4		Thyr./P.T.			
Ht./B.V.	1.99			Epd./Fim.				Adren.	0.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.283	6	
Lungs	2.08	2		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.70	3		Es./Stom.	2.78	5		Bo./B.M.			
Spleen	0.36			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale, left - base depressed - ↓ - pituitary mass.

2) Dull red areas throughout

3) Pale.

4) Small, soft + dark.

5) Squamous mucosa thickened & ulcerated.

7-14-66
Pathologist William C. Krauss

Cause of Death: 6) Dark red vascular mass 0.8 x 0.5 x 0.5 Cm.

Date 7-14-66

HISTOPATHOLOGY

Nephritis

7-15-66

Pathologist ———
Date 10/15/66

DUP040004030

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Group I Lead Acetate Control Excipient ———

Animal Rat Strain CBL-CD Sex ♂ Age [redacted] 535 days Diet GPLC + 1%

Test 2yr. feeding Phase Test Dose Control Days

(c)
H. 4154
No. 69652
MR No. 787
Test 506
Recovery

Observations:
Continuous weight loss

Weights
Initial 110
Intermediate 842
Final 508 2/20/67
T.I. E. Wells
Ref. MR-787

FOUND DEAD

Killed ———
Died 9-3-66 Method ———
Survival: d h m
P.M. Time overnight +
Change v. adc.
General Condition Flaccid, blue cadaver.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.		P.M. Change		T./Ov.		P.M. Change		Thyr./P.T.			
Ht./S.V.				Epd./Fim.				Adren.		P.M. Change	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Conto-stiff

(v) tissue saved

9-6-66
C.H.
Pathologist William C. Krauss
Date 9-6-66

Cause of Death: ———

HISTOPATHOLOGY

9-7-66

Pathologist ———
Date ———

DUP040004031

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material: Lead Acetate Gp I Excipient: ———

(C) H. 2413-4
No. 69565
MR No. 787

Animal: Rat Strain: CFE CD Sex: ♂ Age: 545 Days Diet: GPLC + 1% Ca

Test: 2yr. feeding Phase: Test Dose: Control I Days: Test 510, Recovery ———

Observations: Continuous wgt loss

Weights
Initial 106
Intermediate 630
Final 578 8/30/66
T.I. E. Miller
Ref. NLP. 787

FOUND DEAD

Killed ———
Died F.D. 10:30 am 9/13/66 Method ——— Survival: d ___ h ___ m ___ P.M. Time 2 Hrs. Change sl. General Condition: Rigid cadaver

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.	—		
Br./Sp.C.		✓		T./Ov.		✓		Thyr./P.T.		✓	
Ht./B.V.		✓		Epd./Fim.		✓		Adren.		✓	
Tr./La./Br.				S.V./F.T.				(Pit)/Pin.		✓	
Lungs		1 ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		2 ✓		Es./Stom.				Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Heart & Lungs - involved & multilobular abscesses. Adherent to thoracic & diaphragm.

2) Surface granular.

(Tissues saved)

Cause of Death:

9-13-66
Pathologist GM Zwicker
Date 9-13-66

HISTOPATHOLOGY

GMZ 9/13/66

Pathologist ———
Date ———

DUP040004032

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Control Lot I Excipient ———

H. 4454
No. 69681
MR No. 787

Animal Rat Strain CFE-CD Sex ♂ Age 579 Days Diet GPLC+1% CO

Test 2 yr feeding Phase test Dose Control Days Test 545 Recovery

Observations: 10/5/65 swollen neck gland

Weights
Initial 119
Intermediate 615
Final 820

T.I. E. Miller
Ref. MR-787

Killed 10-17-66
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition Obese

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.48			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.39			(T.)Ov.	1.70 1.8	2		Thyr./P.T.			
(Ht.)/B.V.	1.8			Epd./Fim.				Adren.	.051		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.018		
Lungs	3.83 1.95 lungs			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	31.2	1		Es./(Stom.)	2.84			Bo./B.M.			
Spleen	1.1			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Pale, edges rounded.

2) Small, soft & dark.

10-17-66
Q.H.
Pathologist William C. Krawza
MAR 10-17-66
Date 10-17-66

Cause of Death:

HISTOPATHOLOGY

Kidney Nephritis ++

ne Testes - degen +++

S.Z.P.
10/18/66

Pathologist S.Z.P.
Date 10/18/66

DUP040004033

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Control Gp I Excipient ———

H. 41154
No. 69506
MR No. 787

Animal Rat Strain CBL-CD Sex ♂ Age 579 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days Test 545 Recovery ———

Observations: none

Weights
Initial 110
Intermediate 620
Final 821
T.I. E. Miller
Ref. HA-787

Killed 10-17-66
Died KILLED Method CHCl₃ Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition Obese

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.24			Thym./N.F.	⟷		
Br./Sp.C.	2.13			T./Ov.	3.5			Thyr./P.T.			
Ht./B.V.	2.05			Epd./Fim.				Adren.	.070		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	2.30			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.85	(1)		Es./Stom.	3.0			Bo./B.M.			
Spleen	1.13			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) rounded margins

Cause of Death:

Pathologist William C. Rowe
MAR 10-18-66 Date 10-17-66

HISTOPATHOLOGY

Nephrits +

SEJ
10/18/66

Pathologist SEJ
Date Nov 10, 69

DUP040004034

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate, Control Lot I Excipient ———

H. 4154
No. 69490
MR No. 787

Animal Rat Strain CAR-CD Sex ♂ Age 579 Days Diet GPLC + 1% CO

Test 2yr Feeding Phase Test Dose Control Days Test 545 Recovery

Observations: none

Weights
Initial 124
Intermediate 682
Final 630
T.I. E. Miller
Ref. MP-787

Killed 10-17-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	7.99	(1)		Thym./N.F.	—		
Br./Sp.C.	2.40			T./Ov.	4.34			Thyr./P.T.			
Ht./B.V.	1.70			Epd./Fim.				Adren.	.077		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.021		
Lungs	2.10			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	27.8			Es./Stom.	2.95			Bo./B.M.			
Spleen	1.6			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Large, pale, granular, hydronephrosis, right.

10-17-66
CM
Pathologist William C. Krause
MJC 10-17-66 Date 10-17-66

Cause of Death:

HISTOPATHOLOGY

10/19/66

Pathologist
Date

DUP040004035

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Control Spot Excipient ———

H. 4154
No. 69491
MR No. 787

Animal Rat Strain CD-SD Sex ♂ Age 579 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Control Days { Test 545 / Recovery ———

Observations: none

Weights
Initial 111
Intermediate 765
Final 1072
T.I. E. Miller
Ref. MR-787

Killed 10-17-66
Died KILLED Method CHCl3 Survival: d ___ h ___ m ___ P.M. Time ___ Change ___

General Condition Obese

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.90			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.31			(T.)/Ov.	3.88			Thyr./P.T.			
(Ht.)/B.V.	2.32			Epd./Fim.				Adren.	—		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.019		
Lungs	2.70	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	29.30			Es./(Stom.)	3.6			Bo./B.M.			
Spleen	1.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) all lobes, large red foci all surfaces (tabulating time to die)

Cause of Death: ———

Pathologist William C. Krause
MR 10-17-66 Date 10-17-66

HISTOPATHOLOGY

BH
10/19/66

Pathologist ———
Date ———

DUP040004036

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Control Gpl Excipient —

Animal Rat Strain CHR-CD Sex ♂ Age 579 Days Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose Control Days Test 545 Recovery —

Observations: none

H. 4454
No. 69445
MR No. 787

Weights
Initial 123
Intermediate 580
Final 859
T.I. E. Mickey
Ref. NCL-787

Killed 10-17-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time — Change —

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.85			Thym./N.F.	—		
Br./Sp.C.	2.30			T./Ov.	4.62			Thyr./P.T.			
Ht./B.V.	1.81			Epd./Fim.				Adren.	.056		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.91			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.72			Es./Stom.	3.20			Bo./B.M.			
Spleen	1.11			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NED

10-17-66
C.H.

Pathologist William C. Krause

Cause of Death:

MAE 10-19-66 Date 10-17-66

HISTOPATHOLOGY

9H
10/19/66

Pathologist —

Date —

DUP040004037

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Control Hyt Excipient

H. 4454
No. 69425
MR No. 787

Animal Rat Strain CD-1 Sex ♂ Age 579 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Control Days { Test 545 / Recovery

Observations:

Continuous wgt loss from 6/7/66

Weights
Initial 730
Intermediate 935
Final 952

T.I. E. Miller
Ref. NIH-07

Killed 10-17-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.25			Thym./N.F.	—		
Br./Sp.C.	2.29			T./Ov.	3.80			Thyr./P.T.			
Ht./B.V.	2.2			Epd./Fim.				Adren.	.066		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.023	(2)	
Lungs	3.20	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.6			Es./Stom.	3.15			Bo./B.M.			
Spleen	1.30			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Obese Few red foci throughout all lobes, median lobe partially consolidate.

(2) Small red focus posterior portion size 1 mm diameter

10-17-66
CAD William C. Provost
Pathologist
MR 10-17-66 Date 10-17-66

Cause of Death:

HISTOPATHOLOGY

S.H.
10/19/66

Pathologist
Date

DUP040004038

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Lot I Excipient —

(C) H. 41546 No. 69537 MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 603 Days Diet 6PLC+17% CO

Test 2yr feeding Phase Test Dose Control Days Test 569 Recovery

Observations: weight loss from 6/7/66
moribund, pallor 11/10/66

Weights: Initial 119 Intermediate 698 Final 422 T.I. C. Miles Ref. MR-787

Killed 11-10-66 Survival: P.M. Time
Died KILLED Method CHCl3 d h m Change

General Condition: animal sluggish + thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.18	(4)	2	(Thym.)/N.F.	0.54		
(Br.)/Sp.C.	1.95			(T.)/Ov.	1.71	(3)	1	Thyr./(P.T.)		8	
(Hr.)/B.V.	2.50	(7)	6	Epd./Fim.				Adren.	0.131	(2)	5
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.017	(1)	
Lungs	1.82	[redacted]		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.48	(6)	3	(Es.)/Stom.	3.30	(5)	9	Ba./B.M.			
Spleen	0.58			Du./Je./Il.				Sk./App.			
Pancreas		(9)	4	Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pit very pale

(2) adrenals pale + large

(3) both testicles were small + soft

(4) both kidneys were pale tan, granular + cystic

(5) glandular mucosa had several small red focal areas (erosions)

11-10-66 MMR
Pathologist W. Williams, C. Travers

Cause of Death:

Date 11-10-66

HISTOPATHOLOGY

(6) liver pale tan — 7. ulceration and fibrosis of glandular part ++

(7) aorta stiff

(8) parathyroids appear to be enlarged.

(9) a few dark red nodules (arteritis?) in pancreas

Hist: 1. dilation ++; arteritis ++
2. Chronic glomerulonephritis +++ — hyperplasia, epithelial to photo fibrinoid change in glomerulus
3. fatty change ++
4. arteritis
5. focal fatty change ++, cortex
6. aorta: arteriosclerosis +; heart: focal fibrosis +, fibrosis of arterial muscle

PLS 11/11/66

Pathologist PLS
Date 5-9-67

DUP040004039

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate, Control Hyp. I Excipient ———

H. (C) 4454
No. 69742
MR No. 787

Animal Rat Strain CAR-10 Sex ♂ Age 577 Days Diet GPLC+1% CC

Test 2yr feeding Phase test Dose Control Days Test 563 Recovery

Observations: losing wgt since 4/20/66 7/5 stained perineal area stained perineal area 8/16/66

Weights
Initial 139
Intermediate 765
Final 4/25 562
T.I. E. Miles
Ref. MR-787

Killed FOUND DEAD Survival: P.M. Time ? General Condition Still cadaver stained posterior
Died 11-4-66 Method — d h m Change Vry advanced

GROSS-PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2.	1.	Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.		1.	1	N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. Filled and distended with round stones ranging in size from pinpoint to 3-6 mm. Bladder mucosa thickened.

2. Left kidney enlarged and filled with a single jagged 5 mm in diam. stone

Pathologist William C. Krauss
Date 11-4-66

Cause of Death:

HISTOPATHOLOGY

1. Chronic glomerulonephritis +++; hyperplasia of pelvis +++ hyperkeratosis with renal calculus RPH 11/7/66

2. no U. bladder found on slides

Pathologist RPH
Date 5-9-67

DUP040004040

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Control Grp. I Excipient ——

H.C (4154)
No. 69654
MR No. 787

Animal Rat Strain CFR Sex ♂ Age 643 Days Diet GPLA + 1% CO

Test 2-yr. feeding Phase Test Dose Gp I Days {Test 609 / Recovery

Observations: 5½" mass necrotic surface posterior & rt. foreleg

Weights
Initial 116
Intermediate 678
Final 1397
T.I. E. Wills
Ref. MR 787

KILLED

Killed 12-20-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition as above.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.60		1	Thym./N.F.	—		
Br./Sp.C.	2.32			T./Ov.	4.25			Thyr./P.T.			
Ht./B.V.	3.00			Epd./Fim.				Adren.	0.101	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019		
Lungs	2.55			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	32.00	1		Es./Stom.	3.30			Bo./B.M.			
Spleen	1.62			Du./Je./Il.				Sk./App.	614.85	3	2
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Sl. pale

2) Mottled red-brown, Leacy.

3) Huge mass - right side. Very firm, nodular, partly necrotic - red, brown, grey. 14×11×6 Cm.

12-20-66
CSH William C. Krause
Pathologist
Date 12-20-66

Cause of Death:

HISTOPATHOLOGY

1. focal chronic glomerulonephritis with fibrosis

2. fibroma

RP
12/27/66

Pathologist RP
Date 5-9-67

DUP040004041

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H#4154 Pb Acetate Gp I Excipient —

(C)
H. 4154
No. 69429
MR No. 787

Animal Rat Strain CAR-W Sex ♂ Age 655 Days Diet GPLC + 1% Ca

Test 2yr feeding Phase Test Dose Control Days { Test 621 / Recovery

Weights
Initial 128
Intermediate 788
Final 998
T.I. E. Mills
Ref. NR-787

Observations:

12/20 small mass at perineal area ½ diam.

FOUND DEAD

Killed —
Died 1-1-67 Method — d — h — m — Survival: — P.M. Time 2 days. Change advanced

General Condition asabove

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.		✓	
Ht./(B.V.)		✓		Epd./Flm.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1 ✓	1	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓	V	Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				(Sk.)/App.		2	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Several large dark areas. Hemorrhage? or P.M. change?

2) Abscess - filled w dark brown fluid - at perineal area.

(✓) tissue saved

1-3-67
CHS.
Pathologist G.M. Zucker
Date 1-3-67

Cause of Death:

HISTOPATHOLOGY

1. Alveolar edema +++
2. Fatty change ++

GM
1/4/67

Pathologist G.M.
Date 5-9-67

DUP040004042

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Gp I Excipient ———

H. 4154
No. 69746
MR No. 787

Animal Rat Strain CAR·CD Sex M Age 673 Days Diet 6PLC+1%CO

Test 2yr. feeding Phase Test Dose Control Days Test 639 Recovery

Observations:
Continuous wgt loss since 9/12

Weights
Initial 115
Intermediate 812
Final 573 (-1)
T.I. E. Melus
Ref. MR 787

Killed FOUND DEAD Survival: P.M. Time
Died 1-19-67 Method d h m Change

General Condition Flaccid, slender, dehydrated Cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6 8	6		Thym./N.F.			
Br./Sp.C.				T.Ov.		7		Thyr./P.T.		10	
Ht./B.V.		1, 2		Epd./Fim.				Adren.		11	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		3		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.		12	
Liver/G.B.	160	4		Es./Stom.		8		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas		5		Ce./Co./Re.		9		Ey/Ea/No/Mo			

1- Heart had smeared grey areas of scar tissue; was very firm
2- aorta was very stiff
3- Several 2mm red foci
4- pale tan, rounded margins
5- Chronic arteritis

Pathologist G. Zuricks
Cause of Death: Date 1-19-67

HISTOPATHOLOGY

6- enlarged, grey; very rough surface, cystic foci on surface
7- very small, soft
8- glandular mucosa very thick, firm
9- Chronic arteritis (blue nodules in mesentery)
10- R thyroids very large
11- enlarged, grey with raised cyst like foci
12- bone — very soft

GH 1/20/67

Pathologist
Date

DUP040004043

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H#4154 Excipient —

H. 4154 Gp I
No. 69751
MR No. 787

Animal Rat Strain CHR-CD Sex M Age 716 Days Diet 6PLC+1% CO

Test 2yr feeding Phase Test Dose Control Gp I Days Test 682 Recovery —

Observations:
Continuous weight loss since 1/3/67

Weights
Initial 116
Intermediate 642
Final 815 2/28
T.I. E.H. Miles
Ref. MR-787

FOUND DEAD

Killed —
Died 3-3-67 Method —

Survival: d h m

P.M. Time overnight
Change mod

General Condition Pale, obese cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		4	
Lungs		1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		.2		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dull red throughout.

2) Tubular markings prominent, edges rounded. (Fatty appearance)

3) Pale brown, sl. granular.

4) Dark red vascular mass. 0.6 cm dia.

3-3-67
C.H.
Pathologist Geo Zuicky
Date 3-3-67

Cause of Death:

HISTOPATHOLOGY

JH 3/6/67

Pathologist —
Date —

DUP040004044

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H#4154 Excipient ——

Animal Rat Strain CR·CD Sex M Age 716 Days Diet GPLC + 1% CO

Test 2 yr feeding Phase Test Dose Control GpI Days

H. 4154 GpI
No. 69526
MR No. 787

Test 682
Recovery

Weights
Initial 113
Intermediate 782
Final 1011 3/28

T.I. E. Miller
Ref. MR·787

Observations:
12/20 solid moveable mass at side 1" diam -

FOUND DEAD

Killed ——
Died 3-3-67 Method ——

Survival: d h m

P.M. Time overnight
Change mod-adv.

General Condition Pale carcass, + alopecia

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.		Dk Grays		Epd./Fim.			Dk Grays	Adren.		Dk Grays	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk/App.		2	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Dark red areas - Hemorrhages?

2) 1 Firm white mass - right side - 2.5 Cm. dia.

3) Very firm, encapsulated whit. mass - neck region 2 Cm. dia.

3-3-67
Gld.
Pathologist Gmzwickel

Cause of Death:

Date 3-3-67

HISTOPATHOLOGY

3/6/67

Pathologist ——
Date ——

NECROPSY RECORD

Material Control for # 4154 Excipient

H. 4154 Gp I
No. 69447
MR No. 787

Animal Rat Strain CR·CD Sex M Age 733 Days Diet GPLC4 10% CO

Test 2yr feeding Phase Test Dose Control Gp I Days Test 699 Recovery

Observations:
3/20 emaciated, extreme pallor, moribund

Weights
Initial 115
Intermediate 655
Final 962 ~~963~~ 3/17
T.I. E. Miller
Ref. MR-787

Killed
Died 3-20-67 Method
Survival: d h m
P.M. Time 5 hrs
Change none
General Condition Pale, flaccid cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.90		2	Thym./N.F.	—		
Br./Sp.C.	2.31			T./Ov.	3.32			Thyr./P.T.			
Ht./B.V.	1.98			Epd./Fim.				Adren.	0.088	2	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.156	3	4
Lungs	1.90			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.70	1	3	Es./Stom.	3.62	4		Bo./B.M.			
Spleen	0.46			Du./Je./Il.				Sk./App.			
Pancreas			1	Ce./Co./Re.				Ey/Ea/No/Mo			

1) Lobular markings prominent, edges rounded.

2) Mottled red-brown.

3) Dark red mass. 0.7 x 0.5 x 0.4 Cm.

4) Glandular mucosa - thickened

3-20-67
G.B.
Pathologist J M Zwicker
Date 3-20-67

Cause of Death:

HISTOPATHOLOGY

1. ~~Adenoma of adrenal cells~~ Islet cell adenoma EFS-3-5-75

2. Glomerulonephritis ++; Tubular hyperplasia +; glomerular fibrosis +; epith. hyperplasia of Bowmans capsule +; hyperplasia of pelvis +; fatty change +. GH 3/21/67

3. focal fatty change +

4. adenoma, anterior Lobe.

Pathologist GH
Date 6-8-67

DUP040004046

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Gp I Control for H#4154 Excipient —

H. 4157
No. 69606
MR No. 787

Animal Rat Strain CRL:CD Sex M Age 744 Days Diet 6PLC+1% CO

Test 2yr. feeding Phase test Dose Control Days { Test 710 / Recovery

Observations: Continuous weight loss since 10-25-66
"razor back"
tip of tail necrotic

Weights
Initial 108
Intermediate 585
Final —
T.I. 87 Wks
Ref. MR-787

~~FOUND DEAD~~
Killed —
Died F.D. 3-31-67 Method —

Survival: d h m

P.M. Time 24 hrs.? Change advanced

General very thin, dehydrated, rigid Condition cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)		Thym./N.F.		(3)	
Br./Sp.C.				T./Ov.			4	Thyr./P.T.		(4)	
Ht./B.V.		(5)	1	Epd./Fim.				Adren.			5
Tr./La./Br.				S.V./P.T.				Pit./Pin.		— disintegrated	
Lungs		(1)	3	Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./IL				Sk./App.			
Pancreas			7	Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple, irregular, white plaques on surface all lobes (PM changes observed terms).
(2) pale brown, granular + cystic (bilateral)
(3) atrophied
(4) p.t. enlarged
(5) aorta rigid, arteritis present

3-31-67 MR
Pathologist GM Zuercher
Cause of Death: Date 3-31-67

HISTOPATHOLOGY

1. arteriosclerosis of aorta and coronary vessels ++; focal fibrosis ++
2. arteritis +++
3. alveolar edema +++; erythrophagia ++, hemosiderin +1
4. arteritis ++; atrophy +
5. medullary focal hyperplasia

9ff 4/3/67

Pathologist 9ff
Date 6 8 67

DUP040004047

9-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control fer II #4154 Excipient —

H. 4154 GpI
No. 69457
MR No. 787

Animal Rat Strain CbR·CD Sex M Age 760 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose Control GpI Days Test 726 Recovery

Observations:

12/20/66 abcess on left hind foot
3/14/67 open mass on left side 1"
open mass on left hind foot 3/4" bleeding

Weights
Initial 91
Intermediate 580
Final 850 3/28
T.I. E. Miles
Ref. MR·787

FOUND DEAD

Killed Died FD 4-17-67 Method

Survival: d h m

P.M. Time Change advanced

General Condition Obese staff cadaver with open wound on plantar surface left hind foot.

Histology Recommended: Yes No
Tissue Saved: Yes X No
Histology Follows: Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		4	
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		1		Es./Stom.				Bo./B.M.			
Spleen		2		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- friable, coarse to section
2- markedly enlarged
3- Coarse to section; Renal lymphnode enlarged, red.
4- enlarged measured 6mm x 5mm x 5mm; dull grey

Pathologist GM Zeiger
Date 4-21-67

Cause of Death:

HISTOPATHOLOGY

GMZ
4/21/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004048

NECROPSY RECORD

Material Central fan H*4154 Excipient ——

H. 4154 Gp I
No. 69422'
MR No. 787

Animal Rat Strain Osb:CD Sex M Age 761 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Gp I Days { Test 727 / Recovery

Observations:
Continued wgt loss from 1-17-67

Weights
Initial 119
Intermediate 760
Final 822 3/25
T.I. C. Hiles
Ref. MR-787

Killed FD 4-11-67 Survival: P.M. Time
Died FOUND DEAD Method d h m Change Marked

General Condition moderately emaciated, dehydrated Cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ✓
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		1		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.		3	
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.		2		N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- left kidney remarkably enlarged, Pelvis dilated Creamy purulent exudate exudes from pelvis.
Rt kidney not enlarged but contains numerous small calculi in the renal pelvis; 2mm circular cystic focus on surface.
2- contains cloudy creamcolored urine.

Pathologist L Zwicker
Date 4-17-67

Cause of Death:

HISTOPATHOLOGY

3- left anterior Rt. had 1mm- 2mm circular stained focus

Chronic nephritis +++, sclerosis +++

4/18/69

Pathologist [illegible]
Date 12.9.69

DUP040004049

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control fem H# 4154 Excipient —

H. 4154 GpI
No. 69481
MR No. 787

Animal Rat Strain CDR·CD Sex M Age 77 Diet GPLC+1% CO

Test 2yr feeding Phase Test Dose Control GpI Days Test 737 Recovery

Observations:
Continuous wgt loss from 1-17-67
3/14 swollen inflammed open area posterior to left hind leg - solid mass 1" posterior to rt hind leg

Weights
Initial 118
Intermediate 770
Final 962
T.I. E. Miles
Ref. MR·787

KILLED

Killed 4.27.67 Survival: P.M. Time
Died Method CHCl3 d h m Change
General Condition obese. see below (1) mass A+ B A'

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.25			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.	3.30			Thyr./P.T. ✓		(2)(5)	
Ht./B.V.	2.40			Epd./Fim.				Adren. CSF	[illegible]	0.100	(8)
Tr./Ld./Br.		(3)		S.V./F.T.				Pit./Pin.	0.212	(6)	
Lungs	2.20			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.70			Es./Stom.	3.80	(7)		Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.		(4)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(A') small mass adj: to A (1.5 g.) brown soft.

1) anterior to Rt rear leg small firm, mass (lobular 6 grams 2.5 cm - 1.75 cm - 1.75 cm

2) 2 cm circular portion of skin on mass on left side posterior to rear leg.

3) Orbital lacrimal gland-moderate prosoplasia.

4) slightly prominent, white. (3) thyroids also large.

(5) enlarged - slightly brown, + large foci - 1 mm extended.

6) pituitary mass .7 cm - .6 cm - .5 cm firm grey-brown.

(7) glandular mucosa focal white firm areas

(8) enlarged - slightly brown, + large foci - 1 mm extended.

Cause of Death:

Pathologist GM Zwicker CSF Date 4/27/67 ✓

HISTOPATHOLOGY

(1)
summary
papillary adenoma
nephroptt
pit adenoma

GM 7.10.67

Pathologist
Date 6.6.69

DUP040004050

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Excipient ———

H. 4154
No. 69689
MR No. 787

Animal Rat Strain CDR·CD Sex M Age 770 Days Diet GPLC+1% CO

Test 2yr. feeding Phase test Dose Control Gp I Days Test 736 Recovery

Observations: Continuous wgt loss since 9/27/66
dry wart on rt side - pasteurs to rt foreleg

Weights
Initial 113
Intermediate 638
Final 588
T.I. E. Miley
Ref. MR 787

Killed 4-26-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition as above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	8.30	(3)		Thym./N.F.			
Br./Sp.C.	2.35			T./Ov.	2.90	(1)		Thyr./P.T.			
Ht./B.V.	2.52			Epd./Fim.				Adren.	0.089		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.016		
Lungs	1.97			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.30	(4)		Es./Stom.	5.80	(2)		Bo./B.M.			
Spleen	1.60			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) testes small
(2) mucosa thickened
(3) Pale tan, granular, slightly cystic, spongy
(4) Pale brown

4-26-67
MSR Pathologist Lem Zwicker
bms Date 4-26-67

Cause of Death:

HISTOPATHOLOGY

1 Kid: nephrosis +++, pyelitis +++, hyperplasia ++

9/1
10.67

Pathologist
Date 10-9-69

DUP040004051

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control Fem H# 41524 Excipient ——

H. 41154 Gp I
No. 69646
MR No. 787

Animal Rat Strain CR·CD Sex M Age 769 Day Diet GPLC+1% CO

Test 2yr. feeding Phase test Dose Control Gp I Days Test 735 Recovery

Observations: Continuous wt loss from 3/14/67

Weights
Initial 109
Intermediate 608
Final 388
T.I. E. Miller
Ref. MR-787

Killed 4-25-67
Died KILLED Method CH/Cl3 Survival: d h m P.M. Time Change

General Condition obese.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.5		2	Thym./N.F.			
Br./Sp.C.	3.25			T./Ov.	4.2			Thyr./P.T.			
Ht./B.V.	2.0			Epd./Flm.				Adren.	.864 .869		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.014		
Lungs	2.15			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	22.4	①	1	Es./Stom.	2.9			Bo./B.M.			
Spleen	.8			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				(Ey)/Ea/No/Mo			3

① lobular markings prominent liver

4-25-67
Pathologist GM Zuricker
Date 4-25-67

Cause of Death:

HISTOPATHOLOGY

1. Fatty change ①
2. Chronic nephritis +
3. Ey orb. Lac. gland – neoplasia ++

GH 7.10.67

Pathologist GH
Date 7.11.67

DUP040004052

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 41574 Excipient ——

H. 41574 GpI
No. 69609
MR No. 787

Animal Rat Strain CR-CD Sex M Age 770 Days Diet 6PLC+10% CO

Test 2yr feeding Phase Test Dose Control Gp I Days Test 736 Recovery

Observations: Continuous wgt loss since 2/14/67

Weights
Initial 120
Intermediate 612
Final 915
T.I. E. Miller
Ref. MR 787

Killed 7-26-67 Survival: P.M. Time
Died Method $CHCl_3$ d h m Change
KILLED

General Condition obese.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	8.10	0		Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.	4.10			Thyr./P.T.			
Ht./B.V.	2.15			Epd./Fim.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.021		
Lungs	2.00	3		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.45			Es./Stom.	2.70			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① large pale brown
② few red foci all surfaces.

4-26-67
Pathologist Lin Zurcher
Date 4-26-67

Cause of Death:

HISTOPATHOLOGY

Nephritis $^{+1}$, cystic $^{++}$

388
7/1067

Pathologist
Date

DUP040004053

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Excipient —

H. 4154 Gp I
No. 69517
MR No. 781

Animal Rat Strain CHR·CD Sex M Age 769 Days Diet 6PLC+1% CO

Test 2yr feeding Phase Test Dose Control Gp I Days Test 735 / Recovery

Observations:
Intermittent wgt loss
2 abscess back hind feet

Weights
Initial 111
Intermediate 650
Final 872
T.I. E. Miles
Ref. MR·781

Killed 1-25-67
Died — Method CHCl₃ Survival: d h m P.M. Time Change

General Condition SEE BELOW ①

KILLED

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.48		2	Thym./N.F.	—		
Br./Sp.C.	3.20			T./Ov.	4.05			Thyr./P.T.			
Ht./B.V.	2.40			Epd./Fim.				Adren.	①90	②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	2.10			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.00		1	Es./Stom.	3.30			Bo./B.M.			
Spleen	1.20			Du./Je./Il.				Skl/App.		1	3
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Bilateral CALLOUSES of the tarsus. (½ cm diam)

② enlarged

(sem. ves., prostate, bladder, pituitary? pancreas? missing - Trim 5-15-67 MR)

Pathologist E M Zwicker ✓
Date 4/5-67

Cause of Death:

HISTOPATHOLOGY

1. Fatty change +0 ; fatty cysts +
2. Chronic nephritis ++ ; lymphoid foci ++ ; glomerular fibrosis ++ ; tubular hyperplasia +.
3. skin (of tarsus) - focal necrosis ; fibrosis ; epidermal hyperplasia

9.10.67

Pathologist
Date 7-1-67

DUP040004054

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H#4154 Excipient —

H. 4154 Gp I #
No. 69664-B
MR No. 787

Animal Rat Strain CDR·CD Sex M Age 769 Days Diet GPLC+10% CO

Test 2yr feeding Phase test Dose Control Gp I # Days Test 735 Recovery

Observations:
intermittent wgt loss
9/13/66 solid mass posterior Cr st parlg ½ diam. with necrotic surface

Weights
Initial 100
Intermediate 620
Final 742
T.I. E. Miller
Ref. MR-787

Killed 4-25-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.45			Thym./N.F.			
Br./Sp.C.	2.30			① Ov.	3.7			Thyr./P.T.			
Ht./B.V.	2.0			Epd./Flm.				Adren.	0.058	0.059	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.126	②	
Lungs	1.97			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	27.9	①		Es./Stom.	2.75			Bo./B.M.			
Spleen	1.9			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① two white raised circular areas left lobe; firm and ½ cm in diam. each.

② Brown fleshlike mass 0.6 cm in diam.

✓

4-25-67
G.M.
Pathologist Lin Zweicker
Date 4/25/67

Cause of Death:

HISTOPATHOLOGY

Chronic nephritis ++

Pathologist GS
Date 16 · 10 · 69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004055

NECROPSY RECORD

Material Cortical fur # 4154 Excipient

H. 4154 Cpd I
No. 64688
MR No. 789

Animal Rat Strain CAR-CD Sex M Age 770 Days Diet 6 PLC + 10% CO

Test 2 yr feeding Phase Test Dose Cortical Cpd I Days { Test 736 / Recovery

Observations:

Weights
Initial 103
Intermediate 738
Final 1050

T.I. E. Hilbs
Ref. MR. 789

Killed 4-26-67
Die KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.80	(4)		Thym./N.F.			
Br./Sp.C.	2.40			T./Ov.	2.00	(5)		Thyr./P.T.		(1)	
Ht./B.V.	2.45			Epd./Fim.				Adren.	0.104	(6)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.036	(7)	
Lungs	8.50			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	27.40	(2)		Es./Stom.	3.00			Bo./B.M.			
Spleen	1.70	(3)		Du./Je./Il.		(8)		Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) left thyroid and parathyroid enlarged.
(2) pale red brown lobular markings prominent
(3) lump ventral surface 14 mm in diam; heavy
(4) large pale brown, surface granular, hydronephrosis bilateral
(5) ovaries soft and dark blue
(6) large, mottled tead brown (7) dark red focus right anterior.
(8) small intestine: small blue vascular mass scattered (arteritis)

4-26-67 Pathologist GM Zwicker
CLF Date 4-26-67

Cause of Death:

HISTOPATHOLOGY

Thyroid - Left C-cell Tumor
Nephrosis ++, pyelonephritis ++, Transitional cell hyperplasia ++

Pathologist JC
Date 10-8-69

DUP040004056

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Excipient —

H. 4154
No. 69459
MR No. 787

Animal Rat Strain CR·CD Sex M Age 77# Diet 6PLC + 1% CO

Test 2yr feeding Phase Test Dose Control Grp I Days Test 737 Recovery —

Observations:

Weights
Initial 113
Intermediate 630
Final 878
T.I. E. Mules
Ref. MR·787

KILLED

Killed 4/27/67
Died — Method CHCl3 Survival: d h m P.M. Time — Change —

General Condition Many posterior to left forelegs. Obese

GROSS PATHOLOGY — Unless Indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.20			Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.	2.80			Thyr./P.T.			
Ht./B.V.	2.0			Epd./Fim.				Adren.	Rt 0.106 L. 0.022	②	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.016		
Lungs	1.85			Pr./Ut.				Sal./Lac.			
L. N.	19.20			Bl./Ur.				N./M./F.			
Liver/G.B.	8.65			Es./Stom.	2.70			Bo./B.M.			
Spleen	0.65	①		Du./Je./Il.				Sk./App.	20.95	③	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① small

② Right adrenal enlarged - dark red brown

③ Firm, white tissue 6 x 3.5 x 2 cm - Subcutaneous mass

Pathologist Lyn Zwicker
Date 4/27/67

Cause of Death:

HISTOPATHOLOGY

Thymus
nephrosis ++
Testes degen. +1
adrenal: Telangiectasis
fibroma, skin

Pathologist
Date 10-8-69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004057

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 41154
No. 69421
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days Test 371 Recovery ———

GAT

Observations: ———

Weights
Initial 135
Intermediate 970
Final 1164
T.I. E. Miller
Ref. Pb Acetate 2yr study

KILLED

Killed 4-25-66 Survival: P.M. Time ——— General Condition markedly obese

Died ——— Method CHCl3 d ___ h ___ m ___ Change ———

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.02			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.31			(T.)/Ov.	3.51			Thyr./P.T.			
(Ht.)/B.V.	2.67			Epd./Fim.				Adren.	—		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	—		
Lungs	2.06			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	34.28			Es./(Stom.)	4.20			Bo./B.M.			
Spleen	1.75			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD; Liver margins rounded

Tissues saved for E.M. ✓

Cause of Death: ———

Pathologist GM Zuricker MC 4-25-66 Date 4-25-66

HISTOPATHOLOGY

Nephrotic +

PJ 4/27/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004058

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 41544
No. 69684
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet GPLC + 1% CO

Test 2 yr. breeding Phase Test Dose Control Days Test 371 / Recovery

Observations: Grd I

Weights
Initial 116
Intermediate 640
Final 710
T.I. E. Miles
Ref. Pb Acetate 2 yr Study

KILLED

Killed 4-25-66 Survival: P.M. Time ———
Died ——— Method CHCl3 d ___ h ___ m ___ Change ———

General Condition obese

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.77			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.28			(T.)/Ov.	.400			Thyr./P.T.			
(Ht.)/B.V.	1.71			Epd./Fim.				Adren.	.062		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.016		
Lungs	1.85			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	21.01			Es./(Stom.)	2.72			Bo./B.M.			
Spleen	.83			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

4-26-66
C.M.L. ~~MMC~~ C. M. Zuercher
Pathologist
MMC 4-25-66 Date 4-25-66

Cause of Death:

HISTOPATHOLOGY

SM
4/27/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS DUP040004059

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69559
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Gp I Days

Test 371
Recovery —

Observations:

KILLED

Weights
Initial 109
Intermediate 720
Final 810
T.I. E. Miller
Ref. Pb acetate 2yr study

Killed 4-25-66
Died —
Method CHCl3
Survival: d — h — m —
P.M. Time —
Change —

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.59			Thym./N.F.	—		
Br./Sp.C.	2.25			T./Ov.	3.7			Thyr./P.T.			
Ht./B.V.	1.79			Epd./Fim.				Adren.	.096		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.014		
Lungs	2.02			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.27			Es./Stom.	2.77			Bo./B.M.			
Spleen	1.02			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist DM Zwickey
Date 4-25-66
4-25-66

HISTOPATHOLOGY

PJ
4/27/66

Pathologist —
Date —

DUP040004060

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Excipient ———

H. 41154
No. 69572
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet @PLC + 1% CO

Test 2 yr. feeding Phase Test Dose Control Days Test 371 Recovery ———

Gr I

Observations: ———

Weights
Initial 129
Intermediate 750
Final 900
T.I. E. Miles
Ref. Pb Acetate 2 yr study

KILLED

Killed 4-25-66 Survival: P.M. Time ———
Died ——— Method CHCl3 d ——— h ——— m ——— Change ———

General Condition Obese

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.98	(3)		(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.30			(T.)/Ov.	3.74			Thyr./P.T.			
(Ht.)/B.V.	1.95			Epd./Fim.				Adren.	0.074		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.018		
Lungs	4.30			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	35.34	(1)		Es./(Stom.)	3.00			Bo./B.M.			
Spleen	1.6	(2)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Large, slightly pale & tubular marking prominent, edges rounded
(2) Spleen slightly, large & dark
(3) Hydronephrosis, bilateral

4-25-66 C.H.

Pathologist L M Zwicker
MRC 4-25-66 Date 4-25-66

Cause of Death: ———

HISTOPATHOLOGY

Nephritis

8/1
11/29/68

Pathologist SLP
Date 10 15 69

DUP040004061

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate 4p + Control Excipient

H. 41534
No. 69566
MR No. 787

Animal Rat Strain HLA-CD Sex ♂ Age 609 Days Diet CPLC + 1% CD

Test 2 yr. feeding Phase Test Dose Control Days Test 575 Recovery

Observations: Continuous weight loss since 5/24

Weights
Initial 124
Intermediate 738
Final 11/8 560
T.I. E. Miles
Ref. MR-787

Killed
Died FD 11-11-66 Method
Survival: d h m
P.M. Time
Change Advanced
General Condition Staff cadaver

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Post mortem change too advanced for tissues to be of value

Pathologist D.M. Zwickel
Date 11-14-66

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

DUP040004062

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material: Lead Acetate Excipient: —

H. 454
No. 69563'
MR No. 787

Animal: Rat Strain: CBR-CD Sex: ♂ Age: 404 days Diet: GPLC+1% CO 6RI

Test: 2 year feeding Phase: Test Dose: Control Days: Test 371, Recovery

Observations:
Stained perineal area
Continuous weight loss

Weights
Initial 114
Intermediate 665
Final 520
T.I. E. Miles
Ref. Pb acetate Sup. study

KILLED

Killed 4-25-66
Died
Method CHCl3
Survival: d h m
P.M. Time
Change

General Hair, slender, sparse, red-brown
Condition hair in perineal area

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	16.98	(6)		(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.71	(7)		(T.)/Ov.	3.80			Thyr./P.T.			
(Ht.)/B.V.	1.50			Epd./Fim.				Adren.	.146		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.033	(8)	
Lungs	2.51			(Pr.)/Ut.		(1)		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	38.0			Es./(Stom.)	2.28			(Bo.)/(B.M.)		(3) (4)	
Spleen	17.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			
								Blood		(5)	

(1) enlargement of prostate, right side.
(2) lymphatic enlargement throughout body.
(3) right femur enlarged, discolored pale green, soft & easily cut
(4) bone marrow discolored green (pale) Enlarged.
(5) blood watery, discolored pale red-brown

Cause of Death:

Pathologist E.M. Zwickey
MAR Date 4-25-66
4-25-66

HISTOPATHOLOGY

(6) unilateral, mild hydronephrosis.
(7) Inside of calvarium, green. soft bony structure
Probably has lymphosarcoma
(8) Partially discolored green.

malignant lymphoma of lung, kidney, liver, spleen etc 4/29/66.

Pathologist
Date 11-15-69

DUP040004063

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CBL-CD Sex ♂ Age 404 days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Days ½ I

Observations:

H. 41574
No. 693-69
MR No. 787

Test 371
Recovery

Weights
Initial 116
Intermediate 5-90
Final 735

T.I. E. Miller
Ref. Pb acetate 2yr feeding Study

KILLED

Killed 4-25-66
Died — Method CHCl₃ Survival: d h m P.M. Time — Change —

General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No ✓
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.50			Thym./N.F.	—		
Br./Sp.C.	2.29			T./Ov.	3.91			Thyr./P.T.	.015 .015		
Ht./B.V.	1.7			Epd./Fim.				Adren.	.055		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.015		
Lungs	1.84			Pr./Ut.				Sal./Lac.			
L-N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.69			Es./Stom.	2.22			Bo./B.M.			
Spleen	.97			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

4-26-66 G.M.
Pathologist G. M. Zwicker
MMC 4-25-66 Date 4-26-66

Cause of Death:

HISTOPATHOLOGY

nephrotest

SH 4/27/66

Pathologist SH
Date 10-14-69

DUP040004064

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H-4154 Excipient —

H. 41541 GPI
No. 69571
MR No. 787

Animal Rat Strain CAR·CD Sex M Age 772 Days Diet GPLC+1% CO

Test 2yr. feeding Phase Test Dose Control GP I Days Test 738 Recovery

Observations:
Continued wgt loss from 2/28
4/28 mass at perineal area ½"

Weights
Initial 128
Intermediate 582
Final 640
T.I. E. Miller
Ref. MR·787

Killed KILLED Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition As above

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.	0.90	(2)		Kidney	4.15			Thym./N.F.			
Br./Sp.C.	1.95			T./Ov.	3.45			Thyr./P.T.		(3)	
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.073		
Tr./La./Br.		(9)		S.V./F.T.				Pit./Pin.	0.022	(6)	
Lungs	4.00	(1)		Pr./Ut.				Sal./Lac.		(8)	
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.65	(7)		Es./Stom.	2.35			Bo./B.M.			
Spleen	0.80			Du./Je./Il.				Sk./App.		(4)	(5)
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) heavy; left diaphragmatic lobe abscessed.; adherent to diaphragm & thoracic wall.
(2) mass (0.90) 1cm - 1.5 cm - 1cm involved thoracic aorta; semi-firm red brown; not attached to thoracic contents.
(3) very small right, left marked enlarged.
(4) milk packets in both axillary area perineal regions.
(5) small firm abscess as observed grossly.
(6) vascular enlargement of rt. ant. pituitary
(7) rounded margins, coarse to section.
(8) exorbital lacrimal gland - marked proliferation
(9) trachea contains stringy clear exudate.

Cause of Death: (Rt pituitary at trimming?) GHH 5-15-67

Pathologist Jim Zucker
CBS Date 4/28/67

HISTOPATHOLOGY

Thyroid - follicular adenoma and light cell tumor
Lungs chronic cavity
Lung: marked focal hyperplasia of bronchus (adenoma?)

Pathologist JDS
Date 10-8-69

DUP040004065

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Excipient

H. 4154
No. 69638
MR No. 787

Animal Rat Strain CR-CD Sex ♂ B.D. Age 3/14/65 231 Diet GPLC + 1% CO

Test 2 yr feeding test Phase test Dose Control Lot I Days { Test 196 / Recovery

Observations: none

Weights
Initial 103
Intermediate
Final 562
T.I. Elizabeth Nutter
Ref. MR-787

Killed 11-2-65 Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.83			(Thym.)/N.F.	0.40		
(Br.)/Sp.C.	2.29			(T.)/Ov.	3.00			Thyr./P.T.			
(Ht.)/B.V.	1.39			Epd./Fim.				Adren.	0.046		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.018		
Lungs	1.72			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	19.99			Es./(Stom.)	~~2.29~~			Bo./B.M.			
Spleen	0.73			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

11-2-65
G.H.
Pathologist Wm. Zinckis
MR 11-2-65 Date 11-2-65

Cause of Death:

HISTOPATHOLOGY

~~Lot Number~~ NAD

GLL
11-3-65

Pathologist GLL
Date 10-10-69

DUP040004066

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control fem H-W 4154 Excipient

H. 4154
No. 69587
MR No. 787

Animal Rat Strain CbR-CD Sex ♂ D.O. Age 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase Test Dose Control gp I Days Test 196 Recovery

Observations: none

Weights
Initial 124
Intermediate
Final 663

T.I. Elizabeth Kuttler
Ref. MR-787

Killed 11-2-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.59			(Thym.)/N.F.	.46		
(Br.)/Sp.C.	2.02			(T.)/Ov.	3.94			Thyr./P.T.			
(Ht.)/B.V.	1.7			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pln.	0.014		
Lungs	+.88/.98	BMB 11-7-65		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	20.07			Es./Stom.				Bo./B.M.			
Spleen	.95			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist Gm. Zucker
MMR 11-2-65 Date 11-2-65

Cause of Death:

HISTOPATHOLOGY

1 Kid NAD

gcl
11-3-65

Pathologist gcl
Date 12-1-65

DUP040004067

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Excipient

Animal Rat Strain CHR-CD Sex ♂ D.D. Age 3/17/65 Diet GPLC + 1% CO

Test 2yr feeding Study Phase test Dose Control gp I Days Test 196 Recovery

H. 4154
No. 69567
MR No. 787

Observations: none

Weights
Initial 94
Intermediate
Final 589

T.I. Elizabeth T. Nutt
Ref. MR-787

Killed 11-2-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.19			Thym./N.F.	0.40		
Br./Sp.C.	2.01			T./Ov.	3.50			Thyr./P.T.			
Ht./B.V.	1.49			Epd./Fim.				Adren. one only *	0.039*		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	1.90			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.17			Es./Stom.				Bo./B.M.			
Spleen	0.84			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Pathologist Dan Zurcher
MMR 11-2-65 Date 11-2-65

Cause of Death:

HISTOPATHOLOGY

Fed NAD

EH
11-3-65

Pathologist EH
Date 10-5-79

DUP040004068

ER-8420 WHITE—PATHOLOGY. FILE BLUE—TOXICOLOGY. MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

2,90 / 2,01

Material Control for H # 4154 Excipient

H. 4154
No. 69494
MR No. 787

Animal Rat Strain Ch-R-CD Sex ♂ Age B.D. 3/17/65 Diet GPLC + 1% CO

Test 2yr. feeding Study Phase test Dose Control gp I Days Test 196 Recovery

Observations: none

Weights
Initial 119
Intermediate
Final 742

T.I. Elizabeth Rutter
Ref. MRR-787

Killed 11-2-65
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.22			(Thym.)/N.F.	0.62		
(Br.)/Sp.C.	2.28			(T.)/Ov.	3.99			Thyr./P.T.			
(Ht.)/B.V.	1.60			Epd./Fim.				Adren.	0.050		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.017		
Lungs	2.01	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	24.01			Es./Stom.				Bo./B.M.			
Spleen	1.01			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple, red foci throughout, 0.5mm to 1mm dia.

11-2-65
G.W.
Pathologist Gm. Zuckler
11-2-65 MRR Date 11-2-65

Cause of Death:

HISTOPATHOLOGY

kidney

G.W.
11-3-65

Pathologist G.W.
Date 12-16-65

DUP040004069

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material GP I Control for H #4154 Excipient

H. 4154
No. 69471
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose Control GP I Days Test 91 Recovery

Observations:

Weights
Initial 128
Intermediate
Final 530
T.I. John Carew
Ref. MR-787

Killed/Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.13			(Thym.)/N.F.	0.88	①	
(Br.)/Sp.C.	2.07			(T.)/Ov.	4.00			Thyr./P.T.			
(Ht.)/B.V.	1.54			Epd./Fim.				Adren.	0.050		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	—		
Lungs	2.19			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	18.71			Es./(Stom.)	1.80			Bo./B.M.			
Spleen	0.99			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Right ventral lobe agglutinated with 3 mm purple foci.

Pathologist William C. Rawls
MAR Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

Ref.: NAD

Pathologist
Date 10 JUL 65

DUP040004070

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material GP I Control for #4154 Excipient

H. 4154
No. 69465
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 12.5 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose Control GP I Days Test 91 Recovery

Observations:

Weights
Initial 120
Intermediate
Final 562

T.I. Joan Tarver
Ref. ME 787

Killed 7/20/65
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition NAO

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.13			(Thym.)/N.F.	0.99		
(Br.)/Sp.C.	2.01			T./Ov.	3.35			Thyr./P.T.			
(Ht.)/B.V.	1.57			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.013		
Lungs	1.87	(1)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	18.47			Es./(Stom.)	2.08			Bo./B.M.			
Spleen	0.73			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) medium lobe was atelectatic

Cause of Death:

Pathologist William C. Krauss
MAR Date 7-20-65
7-20-65

HISTOPATHOLOGY

Kidney AD

7.21.65

Pathologist SLP
Date 10 15 69

DUP040004071

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material GP I Control for H#4154 Excipient

H. 4154
No. 69542
MR No. 787

Animal rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr feeding Phase test Dose Control GP I Days

Test 91
Recovery

Observations:

Weights
Initial 109
Intermediate
Final 450

T.I. Joan Carew
Ref. MR-787

Killed 7/14/65 Survival: P.M. Time
Died KILLED Method $CHCl_3$ d h m Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.67	3		(Thym)/N.F.	0.62		
(Br.)/Sp.C.	2.00			(T.)/Ov.	3.40			Thyr./P.T.			
(Ht)/B.V.	1.10			Epd./Fim.				Adren.	0.038		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.012		
Lungs	1.98	1.		Pr./Ut.				Sal./Lac.			
L. N.		2.		Bl./Ur.				N./M./F.			
(Liver)/G.B.	15.15			Es./(Stom.)	1.80			Bo./B.M.			
Spleen	0.10			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. all lobes mottled reddish brown
2. Thyroid lymph nodes enlarged
3. Diff green color – no clearly defined cortex-medullary junction

Pathologist William C. Krauss
MAR Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

1 Kid.: one Kid. has papillary necrosis +

C#1 #2165

Pathologist
Date

DUP040004072

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

GPI SACRIFICE

NECROPSY RECORD

Material Control for #4154 Excipient —

H. 4154
No. 69509
MR No. 787

Animal rat Strain CbR-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose Control GP I Days Test 91 Recovery —

Observations:

Weights
Initial 116
Intermediate —
Final 498

T.I. Joan Carew
Ref. MR-787

Killed ~~11/22/65~~ Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.50			(Thym.)/N.F.	0.30		
(Br.)/Sp.C.	2.08			(T.)/Ov.	4.40			Thyr./P.T.			
(Ht.)/B.V.	1.54			Epd./Fim.				Adren.	0.080		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.94			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	17.03			Es./(Stom.)	2.01			Bo./B.M.			
Spleen	0.87			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

1 section Kidney at trimming — LBR 8/3/65

Pathologist William C. Krauss
Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

Kid (NAD)

GH 12-6-65

Pathologist GH
Date 10-15-69

DUP040004073

FB-R420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Control for H# 4154 Excipient —

H. 4154 GPI
No. 69585
MR No. 787

Animal Rat Strain CD Sex M Age 772 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control GP I Days Test 738 Recovery

Observations:

Weights
Initial 115
Intermediate 582
Final 690
T.I. E. Mellus
Ref. MR: 787

Killed 4-28-67
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition Poor

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.10			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.	2.70			Thyr./P.T.			
Ht./B.V.	1.70			Epd./Flm.				Adren.	0.043		
Tr./La./Br.				S.V./F.T.				Plt./Pin.	0.022		
Lungs	1.94			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.90			Es./Stom.	2.30			Bo./B.M.			
Spleen	0.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

XAO

4-28-67
Pathologist GM Zwicker
bm CLF Date 4-28-67

Cause of Death:

HISTOPATHOLOGY

Nephrotox ++

Pathologist GM
Date 10-8-69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004074

NECROPSY RECORD

Material Control fem # 4154 Excipient —

H. 4154 Gp I
No. 69473
MR No. 787

Animal Rat Strain Chd·CD Sex M Age 772 Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose Control Gp I Days Test 738 Recovery

Observations: Continued wgt loss since 1-19-67

Weights
Initial 126
Intermediate 612
Final 572

T.I. E. Miles
Ref. MR-787

Killed 4-27-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.90	②		Thym./N.F.			
Br./Sp.C.	1.90			T./Ov.	3.50	③		Thyr./P.T.			
Ht./B.V.	2.00			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.015		
Lungs	1.95			Pr./Ut.				Sal./Lac.	0		
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	28.40			Es./Stom.	4.00			Bo./B.M.			
Spleen	1.20			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		①	

① left eye - opaque lens
② light brown and granular
③ one test. small soft discolored

4-28-67
MR
Pathologist Em Zuricker
CJ Date 4-28-67

Cause of Death:

HISTOPATHOLOGY

Nephrosis ++

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004075

NECROPSY RECORD

Material Pb Acetate 6p TL .005% Pb Excipient —

H. 4154
No. 69613
MR No. 787

Animal Rat Strain CAR:CD Sex M Age 772 Days Diet 6PLE + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days

Test 738
Recovery

Observations:

Continued wgt loss since 2/14

Weights
Initial 115
Intermediate 712
Final 595
T.I. E Miller
Ref. MR 787

Killed 4/28/67
Died KILLED Method AH. Cl3 Survival: d h m P.M. Time Change

General Condition Adeq

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.05			Thym./N.F.			
Br./Sp.C.	2.60			T./Ov.	4.60			Thyr./P.T.			
Ht./B.V.	2.39			Epd./Fim.				Adren.	0.090		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.058		
Lungs	2.25			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	26.60	ⓓ		Es./Stom.	4.42			Bo./B.M.			
Spleen	1.50			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/No			

W several dark red irregular foci on surface of lobes of liver

4/28/67
MR
Pathologist Lia Zuckes
BMS
CLF Date 4/28/67

Cause of Death:

HISTOPATHOLOGY

SDS 67
5 P

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004076

NECROPSY

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

H. 41534
No. 69442
MR No. 787

Animal Rat Strain CRL CD Sex M Age 772 Diet 6 PLC + 1% CO

Test 738

Test 2 yr feeding Study Phase Test Dose .005% Pb 50 PPM Days

Recovery

Observations:

4/18 mass 2" right hip

Weights
Initial 123
Intermediate 645
Final 1003

T.I. E Miller
Ref. Kap. 787

Killed 4/27/67
Died KILLED Method $CHCl_3$ Survival: d h m P.M. Time Change

General Condition as above obese

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.75			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.	4.16			Thyr./P.T.			
Ht./B.V.	2.25			Epd./Fim.				Adren.	0.064		
Tr./Lo./Br.				S.V./F.T.				Pit./Pin.	0.016		
Lungs	2.18			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./P.			
Liver/G.B.	25.95			Es./Stom.	3.85			Bo./B.M.			
Spleen	1.20			Du./Je./Il.				Sk./App.	98.05	⊘	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

⊘ subcutaneous mass 6.5 D x 4 Ht. cm firm, orbitish tissue, small portion of tissue dark red brown

4-28-67 MC
Pathologist Sam Zurikov
Date 4/28/67

Cause of Death:

HISTOPATHOLOGY

5/1/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004077

NECROPSY RECORD

Material Pb acetate Cap III .005% Pb Excipient ———

H. 4154
No. 69561
MR No. 787

Animal Rat Strain CR CD Sex M Age 77 Diet Ca Pl C + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days Test 737 Recovery ———

Observations:

KILLED

Weights
Initial 118
Intermediate 610
Final 900
T.I. Curtis
Ref. MR-787

Killed 4/27/67
Died ——— Method CO2 Survival: d h m P.M. Time ——— Change ———

General Condition: Stomach pulmonary and anterior ventricle abdomen mildly obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes X No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.90	(1)		Thym./N.F.			
Br./Sp.C.	2.20			T./Ov.	4.56			Thyr./P.T.			
Ht./B.V.	2.00			Epd./Fim.				Adren.	0.089		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.019	(3)	
Lungs	2.15			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	23.15			Es./Stom.	3.60			Bo./B.M.			
Spleen	1.25			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Enlarged heavy, coarse to section tan brown.
(2) male gualtie tract - focal abnormalities of the vas deferens
(3) two 1 mm circular cystic area in cranial pituitary.

Cause of Death: EJS

Pathologist Glen Zurickes
Date 4/27/67

HISTOPATHOLOGY

4/28/67

Pathologist ———
Date ———

Rx-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004078

NECROPSY RECORD

Material Pb Acetate GpIL .005% Pb Excipient ———

H. 4454
No. 69524
MR No. 787

Animal Rat Strain CRLCD Sex M Age 770 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 736 Recovery

Observations:
intermittent wgt loss
11/9/66 swollen inflamed foot (left hind)

Weights
Initial 116
Intermediate 715
Final 1100
T.I. C Miller
Ref. MR 787

Killed 4-26-67 Survival d h m P.M. Time
Died KILLED Method CHCl3 Change
General Condition Obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes ___ No ___
Tissue Saved Yes ✓ No ___
Histology Follows Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.30			Thym./N.F.			
Br./Sp.C.	2.28			T./Ov.	3.75			Thyr./P.T.			
Ht./B.Y.	2.45			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.024		
Lungs	2.26			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.35	①		Es./Stom.	3.42			Bo./B.M.			
Spleen	2.15			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① Slightly granular & swollen. Adhesions between lobes

Cause of Death:

4-26-67
MRC
Pathologist Lyn Zwickers
DMS 6/5
Date 4-26-67

HISTOPATHOLOGY

5/10/67

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004079

NECROPSY RECORD

Material Pb Acetate Grp III .005% Pb Excipient

H. 41574
No. 69719
MR No. 777

Animal Rat Strain C&R-CD Sex M Age 770 Days Diet GPLC + 17% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days

Test 736
Recovery

Observations: Continuous right eye since 11-22-66

Weights
Initial 113
Intermediate 610
Final 393
T.I. C.A. Kliden
Ref. MR-787

Killed 4-26-67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition Thin

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.40			Thym./N.F.			
Br./Sp.C.	2.10			T./Ov.	2.30			Thyr./P.T.			
Ht./B.V.	1.30			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.017		
Lungs	1.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	8.90	11.60		Es./Stom.	1.90	②		Bo./B.M.			
Spleen	0.40			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo		①	

① Chromo around left eye thin.

② 2 mm grayish-white raised mass on glandular mucosa

Cause of Death: CA

Pathologist 4-26-67 mar E.M. Zwicker
Date 4-26-67

HISTOPATHOLOGY

5/10/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004080

NECROPSY

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

H. 4154
No. 69724
MR No. 787

Animal Rat Strain CAR:CD Sex M Age 770 Days Diet 6PLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days Test 736 Recovery —

Observations:

Continuous wgt loss from 12/20/66
1-17-67 Added mass 1" posterior to rt foreleg
4-18-67 Mass grown to 3" with necrotic surface

Weights
Initial 113
Intermediate 612
Final 755
T.I. E Miller
Ref. NCR 787

Killed 4-26-67
Died KILLED Method CHCl3 Survival d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated on abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	8.00	(1)		Thym./N.F.			
Br./Sp.C.	2.28			T./Ov.	3.99			Thyr./P.T.			
Ht./B.V.	2.39			Epd./Fim.				Adren.	0.081		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.024		
Lungs	2.33			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	28.50			Es./Stom.	2.70			Bo./B.M.			
Spleen	1.15			Du./Je./Il.				Sk./App.	368.8	(2)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) pale brown and granular - large

(2) 8cm diameter firm, pale red and white mass - medalle right side

Cause of Death (partly morbid) 4-26-67 O.K. Pathologist LM Zwicker Date 4-26-67

HISTOPATHOLOGY

9/5/67
5/10/67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS ER-842

DUP040004081

NECROPSY RECORD

Material Pb Acetate Gp III-.005% Pb Excipient

Animal Rat Strain CR CD Sex M Age 769 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days

H. 4154
No. 69591
MR No. 787

Test 735
Recovery

Observations: none visible

Weights
Initial 101
Intermediate 580
Final 730
T.I. E Hulby
Ref. HR 787

Killed 4-25-67
Died KILLED Method CHCl3

Survival: d h m

P.M. Time
Change

General Condition obese

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.65			Thym./H.F.			
Br./Sp.C.	2.30			T./Ov.	1.20			Thyr./P.T.			
Ht./B.V.	1.90			Epd./Pim.				Adren.	0.075		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.018		
Lungs	2.50	O		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.45			Es./Stom.	2.50			Bo./B.M.			
Spleen	2.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Right anterior lobe is patchy emphysematous, partially firm red brown.

4-25-67 mac
Pathologist Jim Zwickl
Cause of Death: C&F Date 4/25/67

HISTOPATHOLOGY

9 Pl
5 10 67

Pathologist
Date

EK-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004082

NECROPSY RECORD

Material Pb Acetate Sp III .005% Pb Excipient —

Animal Rat Strain CDRCD Sex M Age 769 Days Diet BPLC+1%CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days

H. 4154
No. 69605
MR No. 784

Test 735
Recovery

Observations: Sporadic wgt loss

Weights
Initial 124
Intermediate 580
Final 738
T.I. Exitus
Ref. MR: 784

Killed 4-25-67
Died KILLED Method CO2 Survival: d h m P.M. Time Change

General Condition NAP

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.50			Thym./N.F.			
Br./Sp.C.	2.30			T./Ov.	4.10			Thyr./P.T.			
Ht./B.V.	1.85			Epd./Fim.				Adren.	0.077		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.023	(2)	
Lungs	3.22	(4)		Pr./Ut.		4		Sal./Lac.		(3)	
L. N.		5		Bl./Ur.				N./M./F.			
Liver/G.B.	21.80			Es./Stom.	2.90			Bo./B.M.			
Spleen	1.95	(0)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(4) prostate enlarged
(5) right renal lymph node enlarged
(3) exorbital lacrimal gland - preneoplasia
(2) ant/intermix pituitary 2mm dark red circular enlargement.
(0) enlarged spleen (1) several dark red, circular 2mm foci on parenchymal surface of lung

Pathologist [signature]
Cause of Death Date 6/7-425

HISTOPATHOLOGY

8/8/67
5

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004083

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

Animal Rat Strain CRCD Sex M Age 769 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days

H. 4154
No. 69553
MR No. 787
Test 735
Recovery

Observations: Continued Sporatic wgt loss series 10/25/66

Weights
Initial 108
Intermediate 893
Final 818
T.I. E Miller
Ref. HAR-787

Killed 5-25-67
Died KILLED Method CHCl3 Survival d h m P.M. Time Change

General Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes ✓ No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.30	(2)		Thym./N.F.			
Br./Sp.C.	2.18			T./Ov.	4.90			Thyr./P.T.			
Ht./B.V.	2.10	(1)		Epd./Fim.				Adren.	0.142	(3)	
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.016		
Lungs				Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	93.3	(3)		Es./Stom.	3.40			Bo./B.M.			
Spleen	1.42			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) arteritis

(2) left adrenal enlarged

(3)(4) pale brown granules

5-25-67
Pathologist DM Zuckerman
Date 5-25-67

Cause of Death:

HISTOPATHOLOGY

5-25-67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004084

NECROPSY RECORD

Material Pb Acetate; Gp III .005% Pb Excipient ____

H. 41154
No. 69650
MR No. 787

Animal Rat Strain CR:CD Sex M Age 769 Days Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days { Test 735 / Recovery ____

Observations:

2/14/67 2" mass anterior to left hind leg
4/24 most on back

Weights
Initial 113
Intermediate 588
Final 998
T.I. E Kibler
Ref. HLR 787

Killed 4.25.67
Died KILLED Method CHCl3 Survival: d ____ h ____ m ____ P.M. Time ____ Change ____

General Condition Adeq

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes ____ No ____
Tissue Saved Yes ✓ No ____
Histology Follows Yes ____ No ____

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.30			Thym./N.F.			
Br./Sp.C.	2.45			T./Ov.	2.70			Thyr./P.T.			
Ht./B.V.	2.35			Epd./Fim.				Adren.	0.049		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.30	①		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.49			Es./Stom.	3.40			Bo./B.M.			
Spleen	1.60			Du./Je./IL				Sk./App.	77.45	g ②	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1. few red foci, scattered throughout all lobes ½ to 1½ mm diameter
2. a ____ 6.5 × 5.0 × 3.5 cm. firm solid lobulated mass
b - Abscess

4-25-67
GEH
Pathologist GM Zwicker
E.N.M. Date 4/25/67

Cause of Death

HISTOPATHOLOGY

GPB 5.10.67

Pathologist ____
Date ____

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004085

NECROPSY RECORD

Material Pb Acetate Gp II .005% Pb Excipient

Animal Rat Strain CDFD Sex M Age 762 Days Diet GPLC + 17% CO

Test 24 yr feeding Phase test Dose .005% Pb 50 PPM Days

Observations:

FOUND DEAD

Died F.D. 4-18-67 Method Survival d h m P.M. Time Change

H. 41544
No. 69420
MR No. 187
Test 728
Recovery
Weights
Initial 114
Intermediate 640
Final 820 3/28
T.I. ark/ubs
Ref. MLP-787

General Condition rigid, otherwise carcass, area around nose & mouth stained / dried blood

Histology Recommended Yes No
Tissue Saved Yes ✓ No
Histology Follows Yes No

GROSS PATHOLOGY

Unless indicated no abnormality detected

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
(Thor.)/Abd.		(1)		Kidney		(5)		Thym./N.P.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./(S.V.)		(2)		Epd./Pm.				Adren.			
Tr./La./Br.				S.V./P.T.				Pit./Pn.			
Lungs	9.25	(3)		Pr./Ut.				Sal./Lac.			
L. N.				(Bl.)/Ur.		(6)		N./M./F.			
(Liver)/G.B.		(4)		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) contained small amt. of red-brown fluid

(2) aorta enlarged & rigid; severe arteriosclerosis in many large vessels

(3) lungs heavy; all lobes overinflated & turgid, cut surface edematous (contains small amt. turbid fluid)

(4) enlarged (swollen)

4-18-67 mmc

Cause of Death: Pathologist EM Zuelke

Date 4-19-67

HISTOPATHOLOGY

(5) both kidneys were pale tan, granular & cystic and spongy; cut surface edematous, medullae with turbid red-brown fluid in cavity

(6) bladder greatly distended with turbid, dark red-brown fluid

9cl
4/19/67

Pathologist

Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004086

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

H. 4154
No. 69665
M.R No. 787

Animal Rat Strain CRR-CD Sex M Age — Diet GP1.C + 1% CO

Test 2 yr feeding Phase test Dose .005% Pb 50PPM Days: Test 721 Recovery —

Observations:
Continuous wt loss from 2-28-67
4/11 nervous twitch of head and extremities

Weights
Initial 118
Intermediate 688
Final 462
T.I. E. Miller
Ref. MR-787

Killed 4-11-67
Died KILLED Method CHCl3 Survival: d — h — m — P.M. Time — Change —

General Condition: severe stenosis/debrand-brown; perineal region stenosis/debris not brown;

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No — animal was dehydrated with evidence cecal torsion
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.20	(3)		Thym./N.F.	—		
Br./Sp.C.	2.60	(2)		T./Ov.	2.25			Thyr./P.T.			
Ht./B.V.	2.12			Epd./Fim.				Adren.	0.107	(1)	
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018	(1)	
Lungs	3.57	(5)		Pr./Ut.				Sal./Lac.			
				Bl./Ur.				N./M./F.			
Liver/G.B.	14.50			Es./Stom.	3.05	(6)		Bo./B.M.			
Spleen	0.60			Du./Je./Il.		(7)		Sk./App. mes	19.00	(8)	
Pancreas				Ce./Co./Re.				Ey/Ec/No/Mo			

(1) dark red-brown

(2) left hemisphere of cerebrum appeared slightly smaller and darker, right appeared normal

(3) right kidney was slightly larger (2.3 gm) than left (1.9 gm) also slightly granular on external surface.

(4) small

4-11-67
MRE
Pathologist L M Zurcher
Date 4-11-67

Cause of Death

HISTOPATHOLOGY

(5) diffuse pale green color, firm to edematous, flat foci on surface of left lobe, right anterior lobe; right middle lobe was focal, dividual red-brown, nodular; all other lobes were congested + emphysematous + divided bright red.

(6) gastric mucosa thickened; diffuse to focal areas of erosion in glandular area

(7) gastric tract filled with gas + coagulated material (small intestine).

(8) fusiform, subcutaneous mass on left side of rib-cage, 4cm x 2.5cm x 1cm thick, stitch-picked tissue.

4/12/67

Pathologist —
Date —

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004087

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

Animal Rat Strain CBR-CD Sex M Age 752 Days Diet 6PLC+1% CO

Test 2nd feeding Phase test Dose .005% Pb 50 PPM Days

H. 41574
No. 69675
MR No. 787
Test 78
Recovery ———

Observations:

Continuous wgt loss 10/25/66
7/18/66 Swollen foot

Weights
Initial 118
Intermediate 340
Final 628 5/28
T.I. EHulse
Ref. MR-787

FOUND DEAD

Killed ———
AD Died 4-8-67 Method ———
Survival: d ——— h ——— m ———
P.M. Time 7
Change Acton

General Condition Thin, pale, dehydrated, rigid carcass

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
Tissue Saved: Yes ✓ No ———
Histology Followed: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2 ✓		Thym./N.F.			
Br./Sp.C.		0		T./Ov.		3 ✓		Thyr./P.G.		4 ✓	
Ht./S.V.		1 ✓		Epd./Fim.				Adren.		0	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.		✓		Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Gate-party rigid.
2) Pale brown, granular
3) Partial atrophy
4) Prominent
(c) Tissues saved.

4-10-67
Pathologist EHH Zwicker
Date 4-10-67

Cause of Death:

HISTOPATHOLOGY

SPH
4/11/67

Pathologist ———
Date ———

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004088

NECROPSY RECORD

Material Pb Acetate GP TF Excipient ~~Gum~~

Animal Rat Strain CRL CD Sex M Age 741 Days Diet GPLC+17% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 ppm Days

H. 4154
No. 69534
MR No. 787

Test 707
Recovery

Weights
Initial 126
Intermediate 750
Final 812 SAC

T.I. Chile
Ref. MR-787

Observations:
Continuous wgt loss since 8/30/66
Small abscess on left hind foot

FOUND DEAD

Killed
Died 3-28-67 Method
Survival d h m
P.M. Time
Change

General Condition autolyse

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		1		Thym./N.P.			
Br./Sp.C.		not saved		T./Ov.				Thyr./P.T.			
Ht./B.V.		O.R. Chge		Epd./Pm.		Ph. Chge		Adren.		Ph. Chge	
Tr./La./Br.				S.V./P.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Hydronephrosis, bilateral. Pale bronchi.

3-28-67
O.M.
Pathologist Gm Zuricka
Date 3-28-67

Cause of Death

HISTOPATHOLOGY

9ff
3/30/67

Pathologist
Date

EB-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004089

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient

Animal Rat Strain Osb-CD Sex M Age 732 Days Diet GPL C+ 1% CO

Test 2yr feeding Phase Test Dose .005% Pb STD PPM Days

Observations: Continuous wgt loss since 12/6/66

If 41547
No. 69615
MR No. 787
Test 698
Recovery
Weights
Initial 124
Intermediate 692
Final 618-3/4
T.I. E. Miller
Rel. MR-787

FOUND DEAD

Killed
Died F. dead 0pl Method
Survival: d h m
P.M. Time ?
Change p. ador.
General Condition Thin, pale, rigid carcass

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2		Thym./N.F.			
Br./Sp.C.	not taped			T./Ov.				Thyr./P.T.		3	
Ht./B.V.		1		Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Ante rigid.
2) Pale brown & black, surface ll granular. All tissues fixed.
3) Premark

3-20-67
Pathologist Gm Zwicker
Date 3-20-67

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

EB-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004090

NECROPSY RECORD

Material Pb Acetate Cap III .005% Pb Excipient —

H. 4454
No. 69560
MR No. 787

Animal Rat Strain CBR CD Sex M Age 73½ Days Diet 6PLC + 1% CO

Test 2 yr feeding Phase Test Dose .005% Pb 50 PPM Days

Test 697
Recovery —

Observations: Continuous wt loss since 9/67

Weights
Initial 116
Intermediate 440
Final 440 3/64
T.I. E. Hilbe
Ref. MR 787

FOUND DEAD

Killed — Survival — P.M. Time ? General Condition Thin, pale, dehydrated

Died 3-17-67 Method — d — h — m — Change Terminal

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		3		Thym./N.F.			
(Br)/Sp.C.		not saved		T./Ov.		3		Thyr./P.T.			
Ht./(B.V.)		1		Epd./Pim.		Fix Bdy		Adren.		Path Change	
Tr./La./Br.		Path Change		S.V./P.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ca./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - ligid

2) Pale brown - serosa granular.

3) Small & soft

3-20-67
GH
Pathologist Gm Zwicker
Date 3-20-67

Cause of Death

HISTOPATHOLOGY

GH
3/21/67

Pathologist —
Date —

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004091

NECROPSY RECORD

Material Pb Acetate Gp III .015% Pb Excipient ———

H. 4154
No. 69678
MR No. 787

Animal Rat Strain CBR CD Sex M Age 706 Days Diet GPLC + 1% Ca

Test 2yr feeding Phase Test Dose .005% Pb Days: Test 672 / Recovery

Observations: 1/3/67 solid movable mass posterior to rt. parlig 1" diam. continuous weight loss since 10/25/66
2/21: "razor-back" irregular respiration; face appears swollen, ptosis; extreme pallor; moribund
Sac 2/21

Weights: Initial 104 / Intermediate 640 / Final (350)

T.I. E. Hawkins
Ref. MR 787

Killed 2-21-67 Survival: d ___ h ___ m ___ P.M. Time ___
KILLED Method CHCl3 Change ___

General as above; clear both eyes; perineal
Condition region stained yellowish-brown

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.51	(4)		Thym./N.F.	—	(8)	
Pe./Sp.C.	2.10	(1)		T./Ov.	1.55	(5)		Thyr./P.T.			
Ht./B.V.	1.55			Epd./Pin.				Adren.	0.075		
Tr./La./Br.				S.V./P.T.				Pit./Fin.	0.299	(9)	
Lungs	2.86	(2)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	13.02	(3)		Es./Stom.	19.80	(6)		Bo./B.M.			
Spleen	0.80			Du./Je./Il.		(7)		Sk./App.		(10)	
Pancreas				Ce./Co./Re.				Ey./Ea./No./Mo		(11)	

(1) ventral surface depressed appears
(2) over inflated + spongy, all lobes
(3) pale
(4) light brown, granular + small (both)
(5) small + soft (both)

2-21-67
MMR
Pathologist E M Zwicker
Date 2-21-67

Cause of Death:

HISTOPATHOLOGY

(6) firm, whitish mass along minor curvature of stomach, measuring 4 cm x 3.5 cm x 2.5 cm approx; appears to originate from glandular mucosa; transmural fat invasion, extensively lobulated
(7) GI tract empty of ingesta + feces; contains yellowish mucoid material
(8) atrophied
(9) firm, darkened to pale red-brown pituitary mass measuring 1.2 cm x 0.8 cm x 0.5 cm
(10) movable mass just to right fairly confirm pale yellow-brown, fatty consistency (lipoma?)
(11) cervical infection (grossly thick fluid substance injected) right side

Pathologist
Date

EB-5420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040004092

NECROPSY RECORD

Material: Placidal Gp III Excipient: ——

Animal: Rat Strain: CD CD Sex: M Age: 678 Days Diet: GPLC + 1% CO

Test: 2yr feeding Phase: Test Dose: .005% Pb 50 PPM Days: Test 644 Recovery ——

Observations: Continuous weight loss since 11-22-66

III

H. 4154
No. 69710
MR No. 787

Weights
Initial 111
Intermediate 715
Final 435 1-24-67
T.I. E. Miller
Ref. MRP-787

FOUND DEAD

Killed —— Died 1-24-67 Method ——

Survival d —— h —— m ——

P.M. Time overnight Change mod-adv

General Condition: Thin, pale, dehydrated liquid cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes —— No ——
Tissue Saved: Yes A No ——
Histology Follows: Yes —— No ——

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		2 ✓		Thym./N.F.			
Br./Sp.C.				T./Ov.		✓		Thyr./P.T.		✓	
Ht./S.V.		✓		Gd./Pm.		✓		Adren.		✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./B.M.		✓	
Spleen		✓		Du./Je./Il.				Sk./App.		3 ✓	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Aorta - stiff - luminal darkening, nodules, irregular, small intestine

2) Pale, granular. Bilateral hydronephrosis.

3) Heart - blk growth - left margin 0.5 Cm. dia.

1-24-67 WCK
Pathologist William C. Krause
Date 1-24-67

Cause of Death ——

HISTOPATHOLOGY

PH
1/25/67

Pathologist ——
Date ——

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

BR-8420

DUP040004093

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

Animal Rat Strain CRR-CD Sex M Age 673 Days Diet GPLC + 1% CO

Test 2yr feeding Phase Test Dose .005% Pb 50 PPM Days

Observations: Continued wgt loss since 11-22-66

H. 4154
No. 69667
MR No. 787
Test 639
Recovery —
Weights
Initial 103
Intermediate 760
Final 580 1/19/67
T.I. E Miller
Ref. NO 787

FOUND DEAD

Killed — Died FD 1-19-67 Method — Survival: d — h — m — P.M. Time — Change advanced

General Condition Stiff, dehydrated carcass

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes — No —
Tissue Saved Yes X No —
Histology Follows Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				(L)Ov.		2		Thyr./P.T.			
Hrt./(V)		1		Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.		3		Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- heart had white areas of scar tissue; aorta was quite stiff
2- Very small, soft
3- Glandular mucosa had several small blue & ulcerated areas

Cause of Death:

Pathologist G M Zuckus
Date 1-19-67

HISTOPATHOLOGY

GMZ 1/20/67

Pathologist —
Date —

BI-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004094

NECROPSY RECORD

Material Pb Acetate Gp III Excipient —

H. 4454
No. 687725
MR No. 787
Test 636
Recovery

Animal Rat Strain CRL:CD Sex M Age 670 Days Diet GPLC+1% CO

Test 2yr Feeding Study Phase Cal Dose .005% Pb 50 PPM Days

Weights
Initial 112
Intermediate 630
Final 820
T.I. E. Miller
Ref. KLR-787

Observations:
Continuous weight loss from 10/00/66
1/16 Moribund - extremely pale

KILLED

Killed 1-16-67 Survival d h m P.M. Time General Condition Pale, moribund.
Died Method CO2 Change

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes ✓ No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.25	3		Thym./N.F.	—		
Br./Sp.C.	2.19			T./Ov.	2.60			Thyr./P.T.			
Ht./B.V.	1.89			Epd./Fim.				Adren.	0.074		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.018		
Lungs	1.61			Pr./Ut.				Sal./Lac.			
L.N.	—	—	—	Bl./Ur.		2		N./M./E.			
Liver/G.B.	18.25	1		Es./Stom.	2.75			Bo./B.M.			
Spleen	0.71			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) M. pale.
2) Distended with dark brown urine. Mucosa thickened.
3) M. pale & granular.

1-16-67
CSH
Pathologist
Date 1-16-67

Cause of Death

HISTOPATHOLOGY

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

BR-8420

DUP040004095

NECROPSY RECORD

Material Pb Acetate Hyd III Excipient —

H. 4154
No. 69614
MR No. 787

Animal Rat Strain CRL-CD Sex ♂ Age 627 Days Diet GPLC+1% Ca

Test 3 yr. feeding Phase Test Dose .05% Pb 60 ppm Days

Test 583
Recovery

Observations: none

Weights
Initial 123
Intermediate 720
Final 11/22 956
T.I. E Miller
Ref. NTP-787

FOUND DEAD
Killed
Died F-dead Method — Survival: d h m P.M. Time overnight Change advanced

General Condition very obese rodent, right

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organs	Wt.	Gross	Micro	Organs	Wt.	Gross	Micro	Organs	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./H.F.			
Br./Sp.C.				Liver				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./Lo./Br.				S.V./F.T.				Pit./Fin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Ja./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

D quite swollen + puffy, rounded margins
(Tissue saved)

12-5-66
Pathologist Dr. Marie P. Krauss
Date 12-5-66

Cause of Death:

HISTOPATHOLOGY

RH
12/6/66

Pathologist
Date

EB-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040004096

NECROPSY RECORD

Material Pb. Acetate Cpd III - .05% Pb Excipient —

Animal Rat Strain CD Sex ♂ Age 623 Days Diet Ch Lab 17e CD

Test 2 yr. feeding Phase Test Dose 50 PPM .005% Pb Days

Observations none

H. 4154
No. 69527
MR No. 787

Test 589
Recovery —

Weights
Initial —
Intermediate 832
Final 11/22 1022
T.I. E. Miller
Ref. MR-787

Killed FOUND DEAD Survival: — P.M. Time 12 hrs - ?
Died E.D.I. Method — d — h — m Change —

General Condition very obese; cadaver still warm

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ← No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		(2)		Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.		(1)		Es./Stom.				Bo./B.M.			
Spleen				Do./Ie./I.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) one 5mm dia., red-brown, slightly raised nodule, written: parenchyma of left lobe; liver appears to be slightly nodular

(2) both kidneys were brownish in color; cut surface showed normal cortical region, reddish, striated medullary region.

12-1-66
Pathologist [signature]
Date 12-1-66

Cause of Death:

HISTOPATHOLOGY

[signature]
12/3/66

Pathologist —
Date —

EL-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS EL-8420

DUP040004097

NECROPSY RECORD

Material Pb acetate Glow Excipient

H. 41547
No. 69676
MR No. 787

Animal Rat Strain CD-SD Sex ♂ Age 614 Days Diet GLP+Tap Water

Test 2yr-feeding Phase test Dose .005% Pb 50 ppm Days

Test 550
Recovery

Observations: pilloerection, mari Bunch

Weights
Initial 582
Intermediate 548
Final 588
T.I. 6-Mar
Ref. MR-787

Killed 11-21-16
Method CHCl3 Survival: d h m P.M. Time Change

General Condition: dense normal appearance, some staining around genitalia

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended Yes No
Tissue Saved Yes No
Histology Follows Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.18	(2)		Thyro./H.P.	0.60	(4)	
(Br.)/Sp.C.	2.46			T./Ov.	3.71	(3)		Thyr./P.T.			
(Ht)/S.V.	1.70			Epd./Tim.				Adren.	0.084	(5)	
Tr./La./Br.				S.Y./P.T.				Pit./Pin.	0.019	(6)	
Lungs	1.91			Pr./Ut.				Sal.(Lac)		(7)	
L.N.				Bl./Ur.				N./M./P.			
(Liver) G.B.	14.07	(1)		Es./(Stom.)	2.41			Bo./S.M.			
Spleen	0.73			Du./Je./Il.				St./App.			
Pancreas				Ce./Co./Re.				Ey./(Ep.)/No/Mo		(8)	

(1) pale tan to dark red-brown mottling overall appearance all lobes

(2) very dark red-brown externally + internally

(3) both testicles discolored/purplish

(4) partially trifloid

(5) both adrenals bed fold/immediate pinkish appearance

Cause of Death:

Pathologist William C. Farmer
Date 11-21-16

HISTOPATHOLOGY

(6) ant. lobe discolored frame located on right side, posterior-dorsal edge of pit

(7) lacr. gland dark gray with light gray-tan, immediate foci on all appearance

(8) left ear infection (yellowish-green purulent material in internal canal

SP
11/23/16

Pathologist
Date

BB-8420 WHITE—PATHOLOGY; PINK—TOXICOLOGY, GROSS BLUE—TOXICOLOGY, MICRO

DUP040004098

NECROPSY RECORD

Material Lead Acetate Hom .005% Pb Excipient ———

Animal Rat Strain CFE-CD Sex ♂ Age 53 (93) Days Diet GPLC+1% CO

Test 2yr feeding Phase Trt Dose .005% Pb 50 PPM Days

Observations: none visible

H. 41154
No. 69679
MR No. 787

Test 557
Recovery ———

Weights
Initial 110
Intermediate 785
Final 965 995
T.I. C. Hicks
Ref. NLR 787

Killed FOUND DEAD Survival: P.M. Time ?
Died F. D. Method ——— d ——— h ——— m Change advanced
General obese caduver; placid & clotted
Condition

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ——— No ———
These Saved: Yes X No ———
Histology Follows: Yes ——— No ———

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.P.			
Br./Sp.C.				(T)/Ov.				Thyr./P.T.			
Ht./S.V.				Epd./Tim.				Adren.			
Tr./La./Br.				S.V./P.T.				(Pit.)/Pin.			
Lungs				Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Autolysed Autolysed P.M. Autolysed P.M. Autolysed P.M.

+ tissues saved (all tissues deemed by advanced P.M. change).

10-31-66
Pathologist William C. Reuss
Date 10-31-66

Cause of Death

HISTOPATHOLOGY

11/1/66

Pathologist
Date

WHITE—PATHOLOGY, H.E. BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

ER-8421

DUP040004099

NECROPSY RECORD

Material Phthalate Gp III 4052 206 Excipient —

Animal Rat Strain CAR-II Sex ♂ Age 580 Days Diet Purina Chow

Test 24 hr feeding Phase Test Dose .05% in drinking water Days

Observations: none

H. 4454
No. 69756
MR No. 787

Test 546
Recovery —

Weights
Initial 99
Intermediate 648
Final 710
T.I. E. Kelly
Ref. MR-787

Killed 10-18-66
KILLED Method CHCl3
Survival: d h m
P.M. Time
Change

General Condition? nad.

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.65			(Thym.)/M.F.	—		
(Bd)/Sp.C.	2.30			(T.)/Ov.	4.40			Thyr./P.T.			
(Ht)/B.V.	1.95			Epd./Prn.				Adren.	0.094		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	0.014		
Lungs	2.25			Pr./Ut.				Sal./Lac.			
L. N.				(Bl.)/Ur.		①		N./M./F.			
(Liver)/G.B.	23.62			Es./(Stom.)	2.82			Bo./B.M.			
Spleen	1.10			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① bladder distended with white translucent, gritty material; wall thickened

Cause of Death: —

Pathologist William C. Yuan M.D. 10-18-66
Date 10-18-66

HISTOPATHOLOGY

8/1
10/19/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040004100

PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate 4% in .005% Pb Excipient —

Animal Rat Strain CRL:CD Sex ♂ Age 580 Days Diet GPLC + 1% CO

Test 2 yr feeding Phase test Dose .005% Pb 50 PPM Days

Observations none

H. 4454
No. 69475
MR No. 787

Test 546
Recovery

Weights
Initial 113
Intermediate 710
Final 1025
T.I. R. Meloy
Rel. MM-787

Kill 10-18-66 Killed Method CHCl3 Survival: d h m P.M. Time Change

General Condition mod.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.89			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.30			(T.)/Ov.	4.15			Thyr./P.T.			
(Hr.)/B.V.	2.11			Epd./Rm.				Adren.	0.065		
Tr./La./Br.				S.V./P.T.				(Pit.)/Pin.	0.013		
Lungs	2.20			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	26.15			Es.(Stom.)	3.21			Bo./B.M.			
Spleen	0.99			Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

mod.

10-18-66
QM: William C. Krauss
Pathologist
MF 10-18-66
Date 10-18-66

Cause of Death

HISTOPATHOLOGY

MF
10/19/66

Pathologist
Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004101

NECROPSY RECORD

Material Pb Acetate 4% w/v .005% Salt Excipient —

Animal Rat Strain CR-CD Sex ♂ Age 580 Diet GR-1+1% Ca

Test 2yr feeding Phase Test Dose .005% Pb 50 ppm Days

Observations: none except weight loss from 9/27

H. 4454
No. 694920
M.R. No. 787
Test 546
Recovery —

Weights
Initial 101
Intermediate 708
Final 948
T.I. E. Miller
Ref. MID-787

Killed 10-18-66
Died KILLED Method CHCl Survival: d h m P.M. Time — Change —

General Condition MOD

GROSS PATHOLOGY

Union indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.23	0		Thym./A.P.	—		
Br./Sp.C.	2.45			T./Ov.	4.30			Thyr./P.T.			
Ht./S.V.	1.92			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.019		
Lungs	2.75			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./P.			
Liver/G.B.	21.40			Es./Stom.	2.83			Bo./B.M.			
Spleen	1.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Opaque kidneys; hydronephrosis, right

10-18-66
Pathologist William C. Rowe
Cause of Death MMC 10-18-66 Date 10-18-66

HISTOPATHOLOGY

SJH
10/19/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040004102

NECROPSY RECORD

Material GP III Lead Acetate Excipient

Animal rat Strain CbL-CD Sex ♂ Age 125 days Diet CPLC + 1% CO

Test 3-yr. feeding Phase Test Dose .005% (50 ppm) Pb Days GP III

Observations:

H. 11154
No. 69488
MR No. 787

Test 91
Recovery

Weights
Initial 106
Intermediate
Final 570

T.I. J. Casey
Ref. MR-787

Killed 7-20-65
Died KILLED Method CHCl3

Survival d h m

P.M. Time
Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Sorted: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.79			(Thym./N.F.)	0.70		
Bd./Sp.C.	2.03			T./Dv.	3.55			Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.049		
Tr./La./Br.				S.V./P.T.				(Pit./Pin.)	0.015		
Lungs	1.87			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./P.			
(Liver/G.B.)	19.37			Es. (Stom.)	1.89			Bo./B.M.			
Spleen	0.70			Du./Je./Il.				St./App.			
Pancreas				Co./Co./Re.				Ey/Ea/No/Mo			

NAD

7-20-65
G.W.I
Pathologist William C. Krauss
MAC 7-20-65
Date 7-20-65

Cause of Death

HISTOPATHOLOGY

EH
7-21-65

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004103

NECROPSY RECORD

Material Gp. III Lead Acetate Excipient

Animal rat Strain CRL-CD Sex ♂ Age 125 days Diet GPLC + 1% CD

Test 2-yr. feeding Phase test Dose .005% (50 ppm) Pb Days
Gp III

Observations:

H. 4154
No. 69458
MR No. 78-7
Test 91
Recovery
Weights
Initial 115
Intermediate
Final 515
T.I. J. Crews
Ref. MR-78-7

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.15			Thym./N.F.	0.70		
Sc./Sp.C.	2.18			T./Ov.	3.89			Thyr./P.T.			
Ht./B.V.	1.40			Epd./Pim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.40			Es./Stom.	1.81			Bo./B.M.			
Spleen	0.57	0.75 MAHK 11/24/65		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-20-65
Pathologist William C. Yuan
Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

9 4 5
7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004104

NECROPSY RECORD

Material Gp III Lead Acetate Excipient

Animal rat Strain CRL-CD Sex ♂ Age 125 days Diet GPLC + 1% CO

Test 2-yr. feeding Phase test Dose .005% (50 ppm) Pb Gp III Days

Observations:

H. 4154
No. 69458
MR No. 787
Test 91
Recovery
Weights
Initial 115
Intermediate
Final 518
T.I. J. Carr
Ref. PRK-78.7

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ✓ No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.15			Thym./N.F.	1.70		
Sc./Sp.C.	2.18			T./Ov.	3.89			Thyr./P.T.			
Ht./B.V.	1.40			Epd./Fim.				Adren.	0.048		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.58			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.40			Es./Stom.	1.81			Bo./B.M.			
Spleen	0.57	0.75 mm 7/21/65		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

7-20-65
Pathologist William C. Krauss
Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004105

NECROPSY RECORD

Material Gp III Lead Acetate Excipient

H. 4154
No. 69488
MR No. 787

Animal Rat Strain Chl-CD Sex ♂ Age 125 Days Diet Co-PLC + 1% CO

Test 2-yr. feeding Phase Test Dose .005% (50 ppm) Pb Gp III Days Test 91 Recovery

Observations:

Weights
Initial 106
Intermediate
Final 570

T.K. D. Carver
Ref. MR-787

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.79			(Thym./N.F.)	0.70		
Br./Sp.C.	2.03			T./Ov.	3.55			Thyr./P.T.			
Ht./B.V.	1.50			Epd./Fim.				Adren.	0.049		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.015		
Lungs	1.87			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.37			Es./Stom.	1.89			Bo./B.M.			
Spleen	0.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Ma			

NAD

7-20-65
C.H.L.
Pathologist William C. Reynolds
MWK 7-20-65
Date 7-20-65

Cause of Death:

HISTOPATHOLOGY

E.H. 7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004106

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 9154
No. 69599
MR No. 777

Animal rat Strain CFE-CD Sex ♂ Age 125 days Diet GPLC + 1% C.D.

Test 2-yr. feeding Phase test Dose .005% (50 ppm) GP III 76 Days

Test 91
Recovery

Observations:

Weights
Initial 128
Intermediate
Final 494

T.I. J. Carol
Ref. NIK-782

Killed 7-20-65
Died KILLED Method CHCl3 Survival d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			Thym./N.F.	0.50		
Br./Sp.C.	2.00			T/Ov.	2.60			Thyr./P.T.			
Ht./B.V.	1.33			Epd./Fim.				Adren.	0.052		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.012		
Lungs	1.49			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.81			Es./Stom.	1.90			Bo./B.M.			
Spleen	0.71			Du./Je./Il.				St./App.			
Pancreas				Ce./Co./Re.				Ey/Ec/No/Mo			

NAD

Cause of Death:

Pathologist William C. Krause
MR Date 7-20-65

HISTOPATHOLOGY

EH 7-21-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004107

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY RECORD

Material Pb Acetate Hg II .005% Pb Excipient —

Animal Rat Strain CRL:CD Sex ♂ Age 580 Days Diet GPLC+1% CO

Test 2yr feeding Phase test Dose .005% Pb 50PPM Days

Observations: none

H.e. 4454
No. 69475
MR No. 787
Test 546
Recovery —

Weights
Initial 113
Intermediate 710
Final 1025
T.I. E. Miles
Ref. MR-787

Killed 10-18-66
KILLED Method CHCl3 Survival d h m P.M. Time Change

General Condition mod.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.89			(Thym.)/N.F.	—		
(Br.)/Sp.C.	2.30			(T.)Ov.	4.15			Thyr./P.T.			
(Hr.)/B.V.	2.11			Epd./Fim.				Adren.	0.065		
Tr./La./Br.				S.V./P.T.				(Pit.)/Pin.	0.013		
Lungs	2.20			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	26.15			Es./(Stom.)	3.21			Bo./B.M.			
Spleen	0.99			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

mod.

Cause of Death: MC 10-18-66

10-18-66 ORL Pathologist William C. Kraus Date 10-18-66

HISTOPATHOLOGY

Pathologist
Date

NECROPSY RECORD

Material Pb Acetate Gavage .005% Pb Excipient —

Animal Rat Strain CD-1 Sex ♂ Age 580 Diet GPLC+1% CO

Test 2yr Feeding Phase Test Dose .005% Pb 50 ppm Days

Observations none except weight loss from 9/27

H. 4154
No. 694921
MR No. 787
Test 546
Recovery

Weights
Initial 101
Intermediate 208
Final 948
T.I. E. Miller
Ref. MLD-787

Killed 10-18-66
Died KILLED Method CHCl3

Survival: d h m

P.M. Time

Change

General Condition MED.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes X No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.23	0		Thym./N.F.	—		
Br./Sp.C.	2.45			Ut./Ov.	4.30			Thyr./P.T.			
Ht./B.V.	1.92			Epd./Fim.				Adren.	0.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.018		
Lungs	2.35			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	21.40			Es./Stom.	2.83			Bo./B.M.			
Spleen	1.35			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

0 pale kidneys; hydronephrosis, right

Cause of Death:

10-18-66
Pathologist William C. Rowe
10-18-66 Date 10-18-66

HISTOPATHOLOGY

Pathologist
Date 10/19/66

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY MICRO PINK—TOXICOLOGY GROSS

DUP040004109

NECROPSY RECORD

Material Pb acetate Hgtn. .005% Pb Excipient —

Animal Rat Strain CAR-ED Sex ♂ Age 550 Diet GPLC + 1% CO

Test 2yr feeding Phase test Dose .005% Pb 50 PPM Days

Observations: none

H. 4454
No. 09482
MR No. 787

Test 546
Recovery

Weights
Initial 126
Intermediate 640
Final 855

T.L. E. Kelly
Ref. AR-787

Killed 10-18-66
Died KILLED Method CHCl3

Survival: d h m

P.M. Time

Change

General Condition nad.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	1.50			(Thym./N.F.)	—		
(Br./Sp.C.)	2.28			(T./Ov.)	4.38			Thyr./P.T.			
(Ht./B.V.)	2.35			Epd./Fim.				Adren.	0.080		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0.017		
Lungs	2.18			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	24.32			Es./(Stom.)	3.80			Bo./B.M.			
Spleen	1.12			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

nad.

Cause of Death: MR 10-18-66

Pathologist William C. Kruse

Date 10-18-66

HISTOPATHOLOGY

RPP
11/19/66

Pathologist

Date

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004110

NECROPSY RECORD

Material Pb Acetate .005% in Pb Hppte Excipient —

H. 41654
No. 694981
ME No. 787

Animal Rat Strain CFHD Sex ♂ Age 586 Days Diet Ca/P/C+1% CO

Test 2yr feeding Phase Test Dose .005% Pb soppon Days

Test
Recovery

Observations: none

Weights
Initial 116
Intermediate 210
Final 311
T.I. C. Miller
Ref. HLO-787

Killed 10-18-66
Died KILLED Method CHCl3 Survival: d * h m P.M. Time Change

General Condition WDD (see below)

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.00			(Thym./N.F.)	—		
(Br./Sp.C.)	2.15			(T./Ov.)	3.96			Thyr./P.T.			
(Ht./B.V.)	2.10			Epd./Fim.				Adren. Trim only	0.042		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	0.019		
Lungs	2.42			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	24.76			Es./(Stom.)	3.58			Bo./B.M.			
Spleen	1.2			Du./Je./IL				(St./App. mes)	29.50	(1)	
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) subcutaneous, circulus mass, 3cm x 3cm x 3cm, firm in right inguinal area

Cause of Death:

Pathologist William C. Krause
10-18-66 Date 10-18-66

HISTOPATHOLOGY

9ll
4/9/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004111

NECROPSY RECORD

Material Pb Acetate Hexahydrate .005% Pb Excipient —

Animal Rat Strain CD-CD Sex ♂ Age 580 Days Diet Purina Co

Test 2yr feeding Phase test Dose .005% Pb 50 ppm Days

Observations: 10/5/66 swollen neck gland

H. 4154
No. 69537
MR No. 787
Test 546
Recovery —

Weights
Initial 120
Intermediate 202
Final 1010
T.I. E. Miller
Ref. MR 787

Killed 10-19-66
Died KILLED Method CHCl3 Survival: d h m P.M. Time — Change —

General Condition Moribund

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes — No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.72	(2)		Thym./L.F.			
(Br.)/Sp.C.	2.40			(T.)/Ov.	3.01			Thyr./P.T.			
(Ht./B.V.	2.22			Epd./Fim.				Adren.	0.047		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.	0.019		
Lungs	3.32	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./P.			
(Liver)/G.B.	24.82			Es./(Stom.)	3.40			Bo./B.M.			
Spleen	1.85	(3)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) multiple red foci, 0.5mm to 2.0mm diam, mostly subpleural, all lobes, heavy

(2) enlarged, left kidney, white nodule, 4mm diam

(3) slightly heavy wet

Cause of Death:

10-18-66 CHL. William C. Rowe
Pathologist MR 10/18/66 Date 10-19-66

HISTOPATHOLOGY

9H 10/19/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004112

NECROPSY RECORD

Material Pb Acetate; Gp #. 005% Pb Excipient ———

H. 4454
No. 69726
MR No. 787

Animal Rat Strain CBB-CD Sex ♂ Age 5'4 Days Diet GR Chow

Test 2 yr feeding Phase Test Dose .005% Pb Days {Test 370 / Recovery

Observations: Continuous wt loss from 9/27

Weights
Initial 100
Intermediate 205
Final 136 10/4/66
T.I. E. Miller
Ref. MP-787

FOUND DEAD Overnight up @ 2:15 PM Lone 12:30 PM

Killed ———
FD Died 10-13-66 Method ———
Survival: d ___ h ___ m ___
P.M. Time ?
Change mod.
General Condition Abd. codema. Chromo.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.				T./Ov.		✓		Thyr./P.T.		✓	
Ht./B.V.		✓		Epd./Fim.		✓		Adren.		✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.		✓	
Lungs		1 ✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		2 ✓		Es./Stom.				Bo./(B.M.)		✓	
Spleen		✓		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) Irregular congestion.

2) Mottled red brown - cranium cut section

(c) Tissues saved.

10-13-66
GH
Pathologist Gm Zwicker
Date 10-13-66

Cause of Death:

HISTOPATHOLOGY

9/1
10/14/66

Pathologist ———
Date ———

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004113

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient —

Animal Rat Strain CD-CD Sex M Age 772 Diet GPLC+1% CO

Test 24 fasting Phase Recovery Dose .005% Pb 50 PPM Days Test 538 Recovery

H. 4154
No. 69453
MR No. 787

Observations:

Continuous exp 6m from 12/6

Weights
Initial 124
Intermediate 702
Final 760
T.I. E-Miles
Ref. MP-787

Killed 4-28-67 Died KILLED Method CHCl3 Survival: d h m Change P.M. Time

General Condition mass post to rt foreleg.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No —
Tissue Saved: Yes ✓ No —
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.20	④		Thym./N.F.			
Br./Sp.C.	2.15			T./Ov.	2.12	③⑥		Thyr./P.T.			
Ht./B.V.	2.25	⑦		Epd./Fim.				Adren.	0.122		
Tr./La./Br.	3.25 3.45			S.V./F.T.				Pit./Pin.	0.018		
Lungs				Pr./Ut.				Sal./Lac.			
L.N.		⑤		Bl./Ur.				N./M./F.			
Liver/G.B.	23.60	②		Es./Stom.	3.35			Bo./B.M.			
Spleen	2.40	⑧		Du./Je./Il.				Sk./App.	3.80	①	
Pancreas				Ce./Co./Re.				Ey/Eo/No/Mo			

① 3.5 Cm - 2 cm - 1 cm - Soft, CUT surface white
② Prolapse of rt. harderal
③ Lt. small kidney blue brown.
④ discolored dark brown focal lesion cortex area 2-3 mm across coarse to section
⑤ Thymus L. N. enlarged - fullen & grey - purulent liquid
⑥ rt. adrenal left from Blade - Bits kept for microscopic
⑦ Rt ventricular wall - grey firm tissue
⑧ slightly rounded margins - coarse to section
⑨ Splenomegaly.

Cause of Death:

Pathologist [signature]
Date 4-28-67

HISTOPATHOLOGY

GLS 5-10-67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004114

NECROPSY RECORD

Material Lead Acetate Hpt III Excipient

Animal Rat Strain CHR-CD Sex ♂ Age 5 1/2 Days Diet B&K.C. + 1% Ca

Test 2yr. feeding Phase Test Dose .05% Pb 50 PPM Days

Observations: 9/5/66 solid moveable mass ½ dia. at perineal area
10/10/66 Continuous weight loss

H. 4454
No. 67737
MR No. 787
Test 538
Recovery
Weights
Initial 88
Intermediate 718
Final 800 7/60/66
T.I. R. Mullis
Ref. NLR-787

FOUND DEAD

Killed
Died 10-10-66 Method
Survival: d h m
P.M. Time Overnight
Change Prosector
General Condition Blue cadaver

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney		✓		Thym./N.F.			
Br./Sp.C.				T./Ov.		✓		Thyr./P.T.			
Ht./S.V.		A.W. Clear ✓		Epd./Fim.		O.W. Clear		Adren.		A.W. Clear ✓	
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		✓		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.		✓		Es./Stom.				Bo./B.M.			
Spleen				Du./Je./IL				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Me			

1) Vascular mass 0.5 Cm. dia.

10-10-66
Pathologist GM Zwicker
Date 10-10-66

Cause of Death:

HISTOPATHOLOGY

PH
10/12/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004115

NECROPSY RECORD

Material Lead Acetate Gr III Excipient —

Animal Rat Strain Ch. O. Sex ♂ Age Diet GPL.A 1% CO

Test 2 Yr. Feeding Phase Test Dose .005% Pb. 50 PPM Days: Test 468, Recovery

H. 4654
No. 69625
MR No. 787

Observations: Swollen foot caught in cage - unable to be removed. Continuous weight loss - foot appears to be decaying — (left hind leg)

Weights
Initial 114
Intermediate 770
Final 760 7-18-66
T.I. E. Thelen
Ref. MR-787

KILLED

Killed 8cc 8-2-66 Survival: P.M. Time
Died Method CO2 d h m Change

General Condition: above - normal unless noted.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.65			Thym./N.F.	—		
Br./Sp.C.	2.29			T./Ov.	2.76			Thyr./P.T.			
Ht./B.V.	1.62			Epd./Fim.				Adren.	0.054		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	2.14	1		Pr./Ut.				Sal./Lac.			
L.N.				(Bl)/Ur.		2		N./M./F.			
Liver/G.B.	9.95			Es./Stom.	1.95			(Bo)/B.M.		4	
Spleen	0.63			Du./Je./Il.				(Sk)/App.		5	
Pancreas				Ce./(Co)/Re.		3		Ey/Ea/No/Mo			

1) Irregular congestion (CO2 sacrifice)
2) Distended ♀ urin. (any)
3) Packed solid with fecal material
4) Fractured femur, 1/3 surrounding tissue appears to be calcified. (muscle)
5) Tissue of left hind limb appears to be gangrenous (skin)

8-2-66
C.S.H. Pathologist G.M. Zwicker
Date 8-8-66

Cause of Death:

HISTOPATHOLOGY

G.H. 8-3-66

Fibrosarcoma of leg metastatic to heart; ~~and~~ and cast. Haze in Tumor

Pathologist RCF
Date 9.29.66

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004116

NECROPSY RECORD

Material Lead Acetate 4% Excipient —

H. 4154
No. 69587
MR No. 787

Animal Rat Strain CFE-CD Sex ♂ Age 465 days Diet GPLC+17% CO

Test 2 yr. feeding Phase Test Dose .005% Pb 50 PPM Days

Test 438
Recovery

Observations: continuous weight loss

Weights
Initial 110
Intermediate 722
Final 652

T.I. E. Kirby
Ref. 2 yr. Pb Study

FOUND DEAD

Killed —
Died E dead 6/12 Survival: d h m
Method P.M. Time ?
Change Moderate
General Condition Blue-black carcass

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes — No ✓
Tissue Saved: Yes — No ✓
Histology Follows: Yes — No —

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney				Thym./N.F.			
Br./Sp.C.				T./Ov.				Thyr./P.T.			
Ht./B.V.				Epd./Fim.				Adren.			
Tr./La./Br.				S.V./F.T.				Pit./Pin.			
Lungs		1		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.				Es./Stom.				Bo./B.M.			
Spleen				Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1) All lobes observed.

(No tissue saved)

NO TISSUE SAVED

6-27-66
Pathologist DM Zuercher
Date 6-27-66

Cause of Death:

HISTOPATHOLOGY

WNL
6/23/66

Pathologist —
Date —

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

NECROPSY

DUP040004117

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69748
MR No. 787

Animal Rat Strain CD-1 Sex ♂ Age 404 days Diet 6PLC+1% CO

Test 24 hr study Phase test Dose Mg III .005 2x Days | Test 371 | Recovery

Observations:

Weights
Initial 116
Intermediate 670
Final 732

T.I. E. Miller
Ref. Pb Acetate 24 hr study

KILLED

Killed 4-25-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition abnormal right eye

GROSS PATHOLOGY — Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.12			(Thym./N.F.)	—		
(Br./Sp.C.)	2.21			(T./Ov.)	1.00	(1)		Thyr./P.T.			
Ht./B.V.	1.62			Epd./Fim.				Adren.	.0274		
Tr./La./Br.				S.V./F.T.				(Pit./Pin.)	.016		
Lungs	1.68			(Pr./Ut.)		(2)		Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver/G.B.)	16.30			Es./Stom.	2.50			Bo./B.M.			
Spleen	1.15	(3)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) testicles quite small, normal shape + color.

(2) prostate enlarged, bilateral

(3) small venous circular fluid filled cyst in margin of spleen

(kidneys, heart, bone marrow missing - 5-16-66 trim Bible)

Cause of Death:

Pathologist Lena Zuschlag MC Date 4-25-66 4-25-66

HISTOPATHOLOGY

Pathologist
Date

ER-8420 WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004118

NECROPSY RECORD

Material Lead Acetate Excipient

H. 4154
No. 69905 705
MR No. 7870

Animal Rat Strain CRL:CD Sex ♂ B.D. Age 404 days Diet GPLC + 1% CO

Test 2yr. Study Phase Test Dose Grp III .005% Pb Days

Test 371
Recovery

Observations:

Weights
Initial 106
Intermediate 432
Final 522
T.I. E. Miller
Ref. Pb acetate 2yr Study

KILLED

Killed 4-25-66
Died Method CHCl₃ Survival: d h m P.M. Time Change

General Condition Nad.

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.42			Thym./N.F.	—		
Pc./Sp.C.	2.48			T./Ov.	3.71			Thyr./P.T.			
Ht./B.V.	1.82			Epd./Fim.				Adren.	.060		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	.017		
Lungs	2.08	(1)		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	25.26			E./Stom.	2.90			Bo./B.M.			
Spleen	.85			Du./Ie./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

Few red foci scattered throughout .5 mm in diameter

4-25-66 O.H. Pathologist G.M.Z.
MR Date 4-25 dc
4-25-66

Cause of Death:

HISTOPATHOLOGY

RFJ 4/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004119

Grp III

NECROPSY

NECROPSY RECORD

Material Lead Acetate Excipient ———

Animal Rat Strain CRL-CD Sex ♂ Age 404 days Diet GPLC+1% CO

Test 2 year feeding Phase test Dose 0.0 0.005 0.1% Pb Days

H. 41541
No. 69635
MR No. 787
Test 371
Recovery

Weights
Initial 116
Intermediate 550
Final 588
T.I. E. Miller
Ref. Pb acetate trip study

Observations:

KILLED

Killed 4-25-66
Died ———
Method C.HCl₃
Survival: d h m
P.M. Time ———
Change ———

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.51			Thym./N.F.	—		
Sp./Sp.C.	2.33			T./Ov.	3.50			Thyr./P.T.			
Ht./B.V.	1.5			Epd./Fim.				Adren.	.058		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.016		
Lungs	1.63			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	19.12			Es./Stom.	2.39			Bo./B.M.			
Spleen	.80			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

4-25-66
O.H.B.
Pathologist DMZ
M&R Date 4-25-66

Cause of Death:

HISTOPATHOLOGY

R.J.L. 4/27/66

Pathologist ———
Date ———

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

ER-842

DUP040004120

NECROPSY RECORD

Material Lead Acetate Excipient —

Animal Rat Strain CRL:CD Sex ♂ Age 404 days Diet GPLE+1% CO

Test 2yr. Feeding Phase Test Dose Gp III .005% Pb Days

H. 41154
No. 7749583
MR No. 787

Test 371
Recovery

Observations: abscess in perineal area

Weights
Initial 118
Intermediate 642
Final 690
T.I. E. Mily
Ref. Pb Acetate 2yr study

KILLED

Killed 4-25-66 Survival: P.M. Time
Died Method CHCl3 d h m Change

General Condition NAD

GROSS PATHOLOGY Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.21			Thym./N.F.			
Br./Sp.C.	2.47			T./Ov.	3.78			Thyr./P.T.			
Ht./B.V.	1.98			Epd./Fim.				Adren.	.061		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.017		
Lungs	2.50			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.23			Es./Stom.	2.90			Bo./B.M.			
Spleen	1.28	(1)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) Slightly Large

4-25-66
OM
Pathologist JMZ
MR Date 4-27-66
4-25-66

Cause of Death:

HISTOPATHOLOGY

SAL
4/27/66

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004121

NECROPSY

NECROPSY RECORD

Material: Lead Acetate Excipient: ———

H. 4454
No. 67502'
MR No. 787

Animal: Rat Strain: CD-CD Sex: ♂ Age: 404 days Diet: GPLC + 1% Ca

Test: 2yr feeding Phase: test Dose: Gp III .005% Pb Days: Test 371, Recovery ———

Observations:

Weights
Initial 118
Intermediate 630
Final 727
T.I. E. Miller
Ref. Chronic 2yr Study

KILLED

Killed 9-25-66
Died ——— Method: CHCl3 Survival: d ___ h ___ m ___ P.M. Time ——— Change ———

General Condition: NAD; mild amount of fat

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ___ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	5.10			T'ym./N.F.			
Br./Sp.C.	2.23			(T.)Ov.	3.80			Thyr./P.T.			
Ht./B.V.	2.10			Epd./Fim.				Adren.	.060		
Tr./La./Br.				S.Y./F.T.				Pit./Pin.	.007		
Lungs	3.31	(1)		(Pr.)Ut.		(3)!		Sal./Lac.		(1)	
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	24.09			Es./Stom.	3.32			Bo./B.M.			
Spleen	.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

(1) ect lung gland marked parenplasia (directed finish-brown)

(2) multiple fin-pint brown foci mon lung surfaces; focal alveolar emphysema; foci, mod 1/3 of diffuse fine, red brown

(3) prostate enlarged, bilateral

Cause of Death:

Pathologist GMZ
MMR Date 11-28-66
11-25-66

HISTOPATHOLOGY

8H
4/27/66

Pathologist ———
Date ———

WHITE—PATHOLOGY FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

ER-8420

DUP040004122

NECROPSY RECORD

Material Lead Acetate Excipient —

H. 4154
No. 69502'
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 404 days Diet GLC + 1% Ca

Test 2yr feeding Phase test Dose Gp III .005% Pb Days

Test 371
Recovery

Observations:

Weights
Initial 108
Intermediate 770
Final 822
T.I. Gillis
Ref. Pb acetate 2yr study

KILLED

Killed 4-25-66
Died Method CHCl3 Survival: d h m P.M. Time Change

General Condition (Emaciated) cadaver moderate amount fat.

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.60	2		(Thym./N.F.	—		
(Br./Sp.C.	2.12			(T./Ov.	3.50			Thyr./P.T.			
(Ht./B.V.	1.41			Epd./Fim.				Adren.	0.076		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.013		
Lungs	1.56			Pr./Ut.				Sal./Lac.		3	
L. N.				(T./Ur.				N./M./F.			
(Liver/G.B.	13.32	1		Es./Stom.	2.30			Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1- Small

2- Left kidney very small 0.70gm, pale red-brown; firm.
right kidney, large, 1st cortical lobe) Lacerated to medial surface
large stone in Pelvis
Ureter somewhat dilated

Cause of Death:

Pathologist G.M. Zuckerman MS 4-25-66 Date 4-28-66

HISTOPATHOLOGY

1- Urinary bladder filled with smooth globular white-cream colored stones. Mucosa thickened, mucosa red

3- Parasitosis - mild.

PH 4/27/66

- Histo Bladder + Kidney ~~hyperplasia papilloma~~ (hyperplasia)

Pathologist RCD
Date 10. 3. 69

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO. PINK—TOXICOLOGY, GROSS

DUP040004123

NECROPSY RECORD

Material: Lead Acetate Excipient:

H. 415-4
No. 69760
MR No. 787

Animal: Rat Strain: CBR-CD Sex: ♂ Age: 3 B.D. 3/17/65 Diet: GPLC + 1% CO

Test: 2yr-feeding Study Phase: test Dose: H = 4154 0.005 % Pt Yr III Days: Test 197, Recovery

Observations: None

Weights: Initial 130, Intermediate, Final 639

T.I. Chas. Mueller

Ref. MR-787

Killed 11-3
~~KILLED~~ Method: CHCl3 Survival: d h m P.M. Time Change

General Condition: N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes ___ No ___
Tissue Saved: Yes ✓ No ___
Histology Follows: Yes ___ No ___

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.17			(Thym.)/N.F.	0.60		
(Br.)/Sp.C.	2.05			(T.)/Ov.	3.65			Thyr./P.T.			
(Ht.)/B.V.	1.50			Epd./Fim.				Adren.	.061		
Tr./La./Br.				S.V./F.T.				(Pit.)/Pin.	.015		
Lungs	1.84			Pr./Ut.				Sol./Lac.			
L.N.				Bl./Ur.				N./M./F.			
(Liver)/G.B.	15.77			Es./Stom.				Bo./B.M.			
Spleen	1.21			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

(Eye missing - trim 11-12-65 MAR)

Cause of Death:

Pathologist: GM Zuercher
JMR 1-7-66
Date: 11-8-65

HISTOPATHOLOGY

9-H
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004124

NECROPSY RECORD

Material Lead Acetate Excipient

H. 41154
No. G 95 75
MR No. 787

Animal R&D Strain CBR-CD Sex F Age 3 B/A 3/17/65 Diet GPLC + 1% CO

Test 2 yr. feeding Study Phase test Dose H # 41154 0.005 % Gr III Days

Test 197
Recovery

Observations: none

Weights
Initial 109
Intermediate
Final 540
T.I. Elizabeth Miller
Ref. NR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	2.90			Thym./N.F.	.50		
Br./Sp.C.	2.20			T./Ov.	3.61			Thyr./P.T.			
Ht./B.V.	1.49			Epd./Fim.				Adren.	0.060		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.017		
Lungs	1.80			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	12.60			Es./Stom.				Bo./B.M.			
Spleen	.70			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

(Brain & bone marrow missing - Trim 11/18/65 MA)

Cause of Death:

Pathologist Gm Fincher
Date 11/3/65

HISTOPATHOLOGY

ZLP
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004125

NECROPSY RECORD

Material Lead Acetate Excipient

Animal Rat Strain CBL-CD Sex ♂ Age B.D. 3/17/65 232 Diet GPLC + 1% Ca

Test 24-feeding Study Phase test Dose M # 4154 0.005 % Pb Days
Gr III

Observations: None

H. 4154
No. 695-19
MR No. 787

Test 177
Recovery

Weights
Initial 129
Intermediate
Final 709

T.I. Eliz. Mueller
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition N.A.D

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.00			Thym./N.F.	.69		
Br./Sp.C.	2.10			T./Ov.	4.55			Thyr./P.T.			
Ht./B.V.	1.79			Epd./Fim.				Adren.	.047		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.013		
Lungs	2.00			Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.75			Es./Stom.				Bo./B.M.			
Spleen	.89			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

N.A.D

Cause of Death:

Pathologist Jm Zweker
Date 11/3/65

HISTOPATHOLOGY

9 pp
11-4-65

Pathologist
Date

WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004126

NECROPSY RECORD

Material Lead Acetate Excipient

Animal Rat Strain PhR-CD Sex ♂ B.D. Age 3/17/65 Diet GPLC + 1% Ca

Test 2 yr. feeding Study Phase Test Dose H # 4154 0.005 % Gr III Days

Observations: None

H. 4154
No. 69446
MR No. 787
Test 197
Recovery
Weights
Initial 133
Intermediate
Final 289
T.I. Elizabeth Hulton
Ref. MR-787

Killed 11-3
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	4.31			Thym./N.F.	.69		
Br./Sp.C.	2.19			T./Ov.	4.10			Thyr./P.T.			
Ht./B.V.	1.75			Epd./Fim.				Adren.	.074		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	.014		
Lungs	2.09	1		Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	17.60			Es./Stom.				Bo./B.M.			
Spleen	1.00			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

1.- 1.02 mm of dark brown foci on all surfaces of lobes of lungs

anterior margin rt. cardiac lobe has a .445 mm red brown abscess

Cause of Death:

Pathologist GM Zuckes
Date 11/3/65

HISTOPATHOLOGY

GH
11-4-65

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004127

NECROPSY RECORD

Material GP III Lead Acetate Excipient

H. 41154
No. 69439
MR No. 787

Animal Rat Strain CR-CD Sex ♂ Age 125 days Diet GPLC #1 7% CD

Test 2-yr. feeding Phase Test Dose .005% (50 ppm) Pb GP III Days

Test 91
Recovery

Observations:

Weights
Initial 109
Intermediate
Final 535
T.I. J. Craig
Ref. MR 787

Killed 7-20-65
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition NAD

GROSS PATHOLOGY

Unless indicated no abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes ✓ No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	3.00			Thym./N.F.	0.84		
Bc./Sp.C.	2.12			T./Ov.	3.87			Thyr./P.T.			
Ht./B.V.	1.53			Epd./Fim.				Adren.	0.062		
Tr./La./Br.				S.V./F.T.				Pit./Pin.	0.014		
Lungs	1.84			Pr./Ut.				Sal./Lac.			
L.N.				Bl./Ur.				N./M./F.			
Liver/G.B.	15.28			Es./Stom.	2.00			Bo./B.M.			
Spleen	0.90			Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

NAD

Cause of Death:

Pathologist William C. Krauss
7-20-65 Date 7-20-65

HISTOPATHOLOGY

9 18
12765

Pathologist
Date

ER-8420 WHITE—PATHOLOGY; FILE BLUE—TOXICOLOGY; MICRO PINK—TOXICOLOGY; GROSS ER-842

DUP040004128

NECROPSY RECORD

Material Pb Acetate Gp III .005% Pb Excipient ———

Rat Strain CBR CD Sex M Age 772 Days Diet 6 PLC + 1% CO

2yr feeding Phase test Dose .005% Pb 50 ppm Days

H. 4534
No. 69604
MR No. 787
Test 738
Recovery ———

Weights
Initial 130
Intermediate 798
Final 760
T.I. C Miller
Ref. HHD 787

Observations:
Continued wt loss from 3/20
Hair clean on ht hind foot 1/2" callous

Killed 4/28/67
Died KILLED Method CHCl3 Survival: d h m P.M. Time Change

General Condition see about small mick pocket in axilla and perineal area.

GROSS PATHOLOGY

Unless indicated as abnormality detected

Histology Recommended: Yes No
Tissue Saved: Yes No
Histology Follows: Yes No

Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro	Organ	Wt.	Gross	Micro
Thor./Abd.				Kidney	6.20	(3)		Thym./N.F.			
Br./Sp.C.	2.20	(7)		T./Ov.	2.30	(6)		Thyr./P.T.			
Ht./B.V.	2.10			Epd./Pm.				Adren.	0.091		
Tr./La./Br.				S.V./P.T.				Pit./Pin.	0.305	(6)	
Lungs	2.85	(5)		Pr./Ut.				Sal./Lac.			
L. N.				Bl./Ur.				N./M./F.			
Liver/G.B.	16.70	(5)		Es./Stom.	2.90	(2)		Bo./B.M.			
Spleen	1.40	(2)		Du./Je./Il.				Sk./App.			
Pancreas				Ce./Co./Re.				Ey/Ea/No/Mo			

① slightly large
② discolored pea tan-brown - coarse to section firm
③ squam mucc small 1-2 mm areas of erosion
④ testes small
⑤ coarse to section - slightly rounded margins several cm of grey discolor.
⑥ pit enlarged 1cm - .5cm - .7cm dark red-brown.
⑦ compressed by pituitary mass
⑧ multiple 2-3 mm circular white grey foci areas on ad surface

Cause of Death:

Pathologist Sam Zwickey
C.P. Date 4-28-67

HISTOPATHOLOGY

SPJ 5.1.67

Pathologist
Date

ER-8420 WHITE—PATHOLOGY, FILE BLUE—TOXICOLOGY, MICRO PINK—TOXICOLOGY, GROSS

DUP040004129