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REPORT

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EXPLORATORY 28-DAY ORAL TOXICITY STUDY

WITH

TELOMER ALCOHOL, TELOMER ACRYLATE, PFHS AND PFOS (positive control)

BY DAILY GAVAGE

IN THE RAT

FOLLOWED BY A 14/28-DAY RECOVERY PERIOD

NOTOX Project 242933

**NOTOX Substances 83484, 83493, 83502, 84456 and 84141
3M Test No. T-7023, T-7024, T-7022, T-7032, T-6295**

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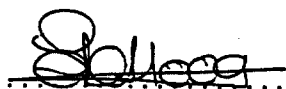
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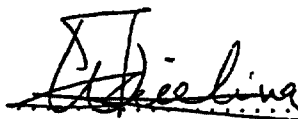
REPORT APPROVAL

Study Director
Ir. S.C.M. de Hoog



Date: 27 April 1999

Management
Drs. W.J.A.M. Frieling



Date: 28 April 1999

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SUMMARY

Exploratory 28-day oral toxicity study with Telomer Alcohol, Telomer Acrylate, PFHS and PFOS (positive control) by daily gavage in the rat followed by a 14/28-day recovery period.

Dose levels for this study, provided by the sponsor, were selected to be 0 (Vehicle Control), 3 (PFOS), 10 (PFHS) and 30 mg/kg body weight/day (Telomer Alcohol, Telomer Acrylate).

The study was based on the following guidelines:

- EEC Directive 96/54/EEC, B.7 Repeated Dose (28 days) Toxicity (oral), 1996.
- OECD 407, Repeated Dose 28-day Oral Toxicity Study in Rodents, 1995

The test substance, formulated in 1% aqueous carboxymethyl cellulose, was administered daily for at least 28 days by oral gavage to SPF-bred Sprague Dawley rats. One vehicle control group and five treated groups were tested, each consisting of 8 males and 8 females. An extra 3 animals per sex per group were allowed 14 days of recovery and another 3 animals per sex per group were allowed 28 days of recovery.

The following parameters were evaluated: clinical signs twice daily (treatment) or once daily (recovery); body weight twice weekly; food consumption weekly; clinical pathology after 4 weeks and at the end of both recovery periods; macroscopy at termination; organ weights and histopathology on a selection of tissues.

RESULTS

- Telomer Alcohol: (30 mg/kg/day)
1. Total protein, globulin and total cholesterol were decreased (♂) after treatment. Total protein was still decreased after 2 and 4 weeks recovery (♂).
 2. Midzonal/centrilobular hypertrophy was observed in the liver, and exocrine apoptosis/single cell necrosis in the pancreas (♂) after treatment and had partially or completely resolved after 4 weeks recovery.
- Telomer Acrylate: (30 mg/kg/day)
1. Body weights were decreased at the end of treatment (♀)
 2. Total protein, globulin and total cholesterol were decreased (♂) and albumin/globulin ratios were increased (♂) after treatment.
- (30 mg/kg/day)
1. Total protein, globulin, aspartate aminotransferase activity (♂) and prothrombin time (♀) were decreased and albumin/globulin ratios were increased (♂) after treatment. Prothrombin time was still decreased after 2 weeks recovery (♀).

PFHS:
(10 mg/kg/day)

1. Total cholesterol (♂ and ♀), total protein, globulin, triglycerides, aspartate aminotransferase activity (♂) and prothrombin time (♂ and ♀) were decreased; albumin/globulin ratios and alkaline phosphatase activity were increased (♂) after treatment. Prothrombin time was still decreased after 2 weeks recovery (♀).
2. Liver weights were increased after treatment (♂).
3. Midzonal/centrilobular hypertrophy was observed in the liver (♂) after treatment and had completely resolved after 4 weeks recovery.

PFOS:
(3 mg/kg/day)

1. Body weights and food consumption were decreased during treatment and recovery (♀).
2. Total protein, globulin, total cholesterol, triglycerides, aspartate aminotransferase activity (♂) and prothrombin time (♀) were decreased; albumin/globulin ratios were increased (♂) after treatment.
3. Autopsy body weights were decreased (♀). Liver weights were increased after treatment and recovery (♂ and ♀).
4. Midzonal/centrilobular hypertrophy was observed in the liver (♂ and ♀) after treatment and remained in evidence among males after recovery.

From the results presented in this report it can be concluded that the positive control compound PFOS dosed at 3 mg/kg/day was indeed the compound with the most striking and persistent effects, mainly in the liver. Compounds with comparable but less severe effects as PFOS included PFHS (10 mg/kg/day) and TELOMER ALCOHOL (30 mg/kg/day).

Despite slightly reduced body weights in females (TELOMER ACRYLATE only) and some slight changes in the blood after treatment, 30 mg/kg TELOMER ACRYLATE or per day did not result in clear systemic toxicity and organ dysfunction at macroscopic or microscopic level.

PREFACE

Sponsor	3M Toxicology Services 3M Center, Bldg 220-2E-02 St. Paul, MN 55144-1000 USA
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Study Director Histopathology	Ir. S.C.M. de Hoog Dr. J. Th. Wilson

STUDY PLAN

Start of Treatment

06 October 1998 (males)
08 October 1998 (females)

Start Recovery

04 November 1998 (males)
06 November 1998 (females)

Blood sampling

03 November 1998 (Main groups, males)
04 November 1998 (Main and Recovery groups 1 and 2, males)
05 November 1998 (Main groups, females)
06 November 1998 (Main and Recovery groups 1 and 2, females)
18 November 1998 (Recovery groups 1, males)
20 November 1998 (Recovery groups 1, females)
02 December 1998 (Recovery groups 2, males)
04 December 1998 (Recovery groups 2, females)

Urine collection

predose	:	29-30 September 1998	(Recovery groups 1 and 2)
day 7	:	11-12 October 1998	(Recovery groups 1 and 2, males)
day 7	:	13-14 October 1998	(Recovery groups 1 and 2, females)
day 14	:	18-19 October 1998	(Recovery groups 1 and 2, males)
day 14	:	20-21 October 1998	(Recovery groups 1 and 2, females)
end of treatment	:	03-04 November 1998	(Recovery groups 1 and 2, males)
end of treatment	:	05-06 November 1998	(Recovery groups 1 and 2, females)
end of recovery	:	17-18 November 1998	(Recovery groups 1, males)
end of recovery	:	19-20 November 1998	(Recovery groups 1, females)
end of recovery	:	01-02 December 1998	(Recovery groups 2, males)
end of recovery	:	03-04 December 1998	(Recovery groups 2, females)

Necropsy

03 November 1998 (Main groups, males)
04 November 1998 (Main groups, males)
05 November 1998 (Main groups, females)
06 November 1998 (Main groups, females)
18 November 1998 (Recovery groups 1, males)
20 November 1998 (Recovery groups 1, females)
02 December 1998 (Recovery groups 2, males)
04 December 1998 (Recovery groups 2, females)

MATERIALS AND METHODS

TEST SUBSTANCES

The sponsor is responsible for the completeness of all test substance data. All available information on characteristics of the test substance were taken into account before the start of the study in order to determine if they conflict with/might affect the proceeding of the study.

NOTOX SUBSTANCE 83484

Identification	TELOMER ALCOHOL
Description	Pale to medium tan waxy solid
Batch	T-7023
Purity	Not indicated by sponsor; treated as 100% pure
Test substance storage	At room temperature in the dark
Stability under storage conditions	Stable
Expiry date	07 September 2000
Specific Gravity	1.7
Stability in vehicle	1% aqueous carboxymethyl cellulose: not indicated

NOTOX SUBSTANCE 83493

Identification	TELOMER ACRYLATE
Description	Yellow liquid
Batch	T-7024
Purity	Not indicated by sponsor; treated as 100% pure
Test substance storage	At room temperature protected from light
Stability under storage conditions	Stable
Expiry date	07 September 2000
Density	Approx. 1.6 g/cm ³ at 50 °C
Stability in vehicle	1% aqueous carboxymethyl cellulose: not indicated

NOTOX SUBSTANCE 83502

Identification	White powder
Description	T-7022
Batch	Not indicated by sponsor; treated as 100% pure
Purity	At room temperature in the dark
Test substance storage	Stable
Stability under storage conditions	07 September 2000
Expiry date	1% aqueous carboxymethyl cellulose: not indicated
Stability in vehicle	

NOTOX SUBSTANCE 84456/B

Identification	PFHS
Description	Off-white crystalline solid
Batch	T-7042
Purity	Not indicated by sponsor; treated as 100% pure
Test substance storage	At room temperature in the dark
Stability under storage conditions	Stable
Expiry date	25 September 2000
Stability in vehicle	1% aqueous carboxymethyl cellulose: not indicated

NOTOX SUBSTANCE 84141

Identification	PFOS
Description	White solid
Batch	T-6295
Purity	Not indicated by sponsor; treated as 100% pure
Test substance storage	At room temperature in the dark
Stability under storage conditions	Stable
Expiry date	07 September 2000
Stability in vehicle	1% aqueous carboxymethyl cellulose: not indicated

Vehicle	1% aqueous carboxymethyl cellulose
Rationale for vehicle	Based on trial formulations performed at NOTOX
Stability in vehicle	Stability over 4 hours will be determined by the sponsor

TEST SUBSTANCE FORMULATION

Method	Formulations (w/w) were prepared daily within 4 hours prior to dosing. No adjustment was made for specific gravity of the test substance.
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Storage conditions	At ambient temperature
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No chemical analysis of dose preparations was performed.

PURPOSE AND RATIONALE

The nature and purpose of this exploratory study was to determine and compare the relative oral toxicity in rats following oral (gastric gavage) doses administered daily over 28 days and identify developmental compounds of lesser toxicity for commercial development.

This study should provide part of a rational basis for toxicological risk assessment in man. The oral route was selected as it is a possible route of human exposure during manufacture, handling or use of the test substance.

GUIDELINES

The protocol was reviewed and agreed by the Article 14-functionary and the Ethical Committee of NOTOX as required by the Dutch Act on Animal Experimentation.

The study procedures described in this report were based on the following guidelines:

1) EC Directive 96/54/EEC, Annex IV.D, replacing EEC Directive 67/548/EEC, Part B : Methods for the Determination of Toxicity and other Health Effects; B.7: "Repeated Dose (28 days) Toxicity (oral)". Official Journal of the European Communities No. L248, September 1996.

2) OECD Guideline for Testing of Chemicals, Guideline 407: "Repeated Dose 28-day Oral Toxicity Study in Rodents", Paris Cedex, 27 July 1995

The protocol, study procedures and the report were not inspected by the NOTOX Quality Assurance Unit.

ARCHIVING

NOTOX B.V., will archive the following data for at least 10 years: protocol, raw data, report and all specimens.

No data will be withdrawn without the sponsor's written consent.

TEST SYSTEM

Test System	Sprague Dawley rat CrI:CD BR (outbred, SPF-Quality) Recognised by international guidelines as the recommended test system (e.g. EPA, FDA, OECD, EEC). Females were nulliparous and non-pregnant. Source : Charles River, Sulzfeld, Germany
Age at Start of Treatment	Approximately 6 weeks.
Number of animals	84 males, 84 females
Randomisation	At least 5 days before study start, by computer-generated random algorithm according to body weight, with all animals within $\pm 20\%$ of the sex mean. A health inspection was performed prior to commencement of treatment to ensure that the animals were in a good state of health.
Identification	Earmark and tattoo

ALLOCATION

Group Identification	Test Substance	Number of animals		Animal numbers	
		males	females	males	females
1 Main group	Vehicle control	8	8	1- 8	97-104
1 Recovery group 1	Vehicle control	3	3	9-11	105-107
1 Recovery group 2	Vehicle control	3	3	13-15	109-111
2 Main group	Telomer Alcohol	8	8	17-24	113-120
2 Recovery group 1	Telomer Alcohol	3	3	25-27	121-123
2 Recovery group 2	Telomer Alcohol	3	3	29-31	125-127
3 Main group	Telomer Acrylate	8	8	33-40	129-136
3 Recovery group 1	Telomer Acrylate	3	3	41-43	137-139
3 Recovery group 2	Telomer Acrylate	3	3	45-47	141-143
4 Main group		8	8	49-56	145-152
4 Recovery group 1		3	3	57-59	153-155
4 Recovery group 2		3	3	61-63	157-159
5 Main group	PFHS	8	8	65-72	161-168
5 Recovery group 1	PFHS	3	3	73-75	169-171
5 Recovery group 2	PFHS	3	3	77-79	173-175
6 Main group	PFOS (positive control)	8	8	81-88	177-184
6 Recovery group 1	PFOS (positive control)	3	3	89-91	185-187
6 Recovery group 2	PFOS (positive control)	3	3	93-95	189-191

Test substances Telomer Alcohol (substance 83484), Telomer Acrylate (substance 83493) and (substance 83502) were tested at a dose level of 30 mg/kg body weight/day.

PFHS (substance 84456) was tested at a dose level of 10 mg/kg body weight/day.
PFOS (substance 84141) was tested at a dose level of 3 mg/kg body weight/day.

ANIMAL HUSBANDRY

Conditions

Air-conditioned room with approximately 15 air changes per hour and the environment controlled with optimal conditions considered as being a temperature of 21°C and a relative humidity of 50%. Lighting was 12 hours artificial fluorescent light and 12 hours dark per day. Deviations from these optimal conditions occurred, but were considered not to have affected study integrity.

Accommodation

Group housing of 3-4 animals per sex per cage in stainless steel suspended cages with wire mesh floors. Acclimatisation period was at least 5 days before start of treatment under laboratory conditions.

Diet

Free access to standard pelleted laboratory animal diet (from Carfil Quality BVBA, Oud-Turnhout, Belgium). Each batch is analysed for nutrients and contaminants are analysed on a regular basis. Results are examined and archived.

Water

Free access to tap-water. Certificates of analysis (performed quarterly) were examined and archived.

TREATMENT

Method	Oral gavage, using a stainless steel stomach tube. Formulations were placed on a magnetic stirrer during dosing.
Frequency	Once daily for at least 28 days, approximately the same time each day, 7 days per week. Main group animals were dosed up to the day prior to necropsy
Dose volume	5 ml/kg body weight. Actual dose volumes were calculated weekly according to the latest body weight.
Dose level	Group 1: 0 mg/kg b.w./day (Vehicle Control) Group 2: 30 mg/kg b.w./day (Telomer Alcohol) Group 3: 30 mg/kg b.w./day (Telomer Acrylate) Group 4: 30 mg/kg b.w./day () Group 5: 10 mg/kg b.w./day (PFHS) Group 6: 3 mg/kg b.w./day (PFOS, positive control)

RECOVERY

Duration	Recovery group 1: at least 14 days Recovery group 2: at least 28 days
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OBSERVATIONS

Mortality / Viability	Twice daily.
Clinical signs	During the treatment period detailed clinical observations were made twice daily in all animals: once immediately after dosing and once approximately 4 hours after dosing. During the recovery period only one observation per day was performed. The time of onset, degree and duration were recorded. All symptoms were recorded and graded according to fixed scales: Maximum grade 4: grading slight (1) to very severe (4). Maximum grade 3: grading slight (1) to severe (3). Maximum grade 1: presence is scored (1).
Body weights	Treatment period : on days 1, 5, 8, 12, 15, 19, 22, 25 and 28. Recovery period : on days 1, 5, 8, 12, 14, 19, 22, 25 and 28.
Food consumption	Weekly.
Water consumption	Subjective appraisal was maintained during the study, but no quantitative investigation introduced as no effect was suspected.

CLINICAL LABORATORY INVESTIGATIONS

Blood samples were collected under light ether anaesthesia, between 7.30 and 9.30 a.m. immediately prior to post mortem examination for Main and Recovery group animals, and for Recovery group animals also at the end of the treatment period. The animals were fasted overnight (with a maximum of 20 hours) before blood sampling, but water was provided. Blood samples were drawn from the retro-orbital sinus of all Main and Recovery rats/sex/group and collected into tubes prepared with EDTA for haematological parameters (0.5 ml), with citrate for clotting tests (1.0 ml) and untreated tubes for clinical biochemistry parameters (>2.0 ml). From animal numbers 17-20, 33-36, 49-52, 65-68, 81-83, 113, 115, 131 and 132 a second EDTA-sample was collected after 4 weeks, due to inexplicable clotting of the first sample.

HAEMATOLOGY

The following haematology parameters were determined from blood prepared with EDTA as an anti-coagulant, using the instruments listed:

Parameter/Abbreviation	Unit	Instrumentation
Erythrocyte count/RBC	T/l	Sysmex K-1000
Haemoglobin/HB	mmol/l	Sysmex K-1000
Haematocrit/HCT	l/l	Sysmex K-1000
Mean corpuscular volume/MCV	fl	Sysmex K-1000
Mean corpuscular haemoglobin/MCH	fmol	Sysmex K-1000
Mean corpuscular haemoglobin concentration/MCHC	mmol/l	Sysmex K-1000
Platelet count	G/l	Sysmex K-1000
Red cell distribution width/RDW	%	Sysmex K-1000
Total leucocyte count/WBC	G/l	Sysmex K-1000
Differential leucocyte count/SEG (Neutrophils), EO (Eosinophils), BASO (Basophils), LYMPH (Lymphocytes), MONO (Monocytes)	1(rel)	Manual (Microscope)

The following haematology parameters were determined from blood prepared with citrate as an anti-coagulant, using the instruments listed:

Parameter/Abbreviation	Unit	Instrumentation/Method
Prothrombin time/PT	sec	Sysmex CA-5000
Partial thromboplastin time/PTT	sec	Sysmex CA-5000

CLINICAL BIOCHEMISTRY

The following clinical biochemistry parameters were determined from serum samples using the instruments listed:

Parameter/Abbreviation	Unit	Instrumentation
Alanine aminotransferase/ (ALAT/GPT)	$\mu\text{kat/l}$	Epos selective analyser 5060 (Eppendorf)
Aspartate aminotransferase/ (ASAT/GOT)	$\mu\text{kat/l}$	Epos selective analyser 5060 (Eppendorf)
Bilirubin, total/ BILI T.	$\mu\text{mol/l}$	Epos selective analyser 5060 (Eppendorf)
Cholesterol, total/ CHOLEST. T.	mmol/l	Epos selective analyser 5060 (Eppendorf)
Triglycerides/ TRIGL.	mmol/l	Epos selective analyser 5060 (Eppendorf)
Creatinine	$\mu\text{mol/l}$	Epos selective analyser 5060 (Eppendorf)
Glucose	mmol/l	Epos selective analyser 5060 (Eppendorf)
Urea	mmol/l	Epos selective analyser 5060 (Eppendorf)
Protein, total/ PROTEIN T.	g/l	Epos selective analyser 5060 (Eppendorf)
Protein, albumin/ ALBUMIN	g/l	Epos selective analyser 5060 (Eppendorf)
Protein, globulin/ GLOBULIN	g/l	Calculation [PROTEIN T.-ALBUMIN]
Albumin Globulin ratio A/G RATIO	1	Calculation [ALBUMIN/GLOBULIN]
Alkaline phosphatase/ ALP	$\mu\text{kat/l}$	Epos selective analyser 5060 (Eppendorf)
Sodium	mmol/l	EFIX 5055 Flame Photometer Eppendorf
Potassium	mmol/l	EFIX 5055 Flame Photometer Eppendorf
Chloride	mmol/l	Jenway PCLM3
Calcium	mmol/l	EFIX 5055 Flame Photometer Eppendorf
Phosphorus/ INORG. PHOSPH	mmol/l	Epos selective analyser 5060 (Eppendorf)

URINALYSIS (Recovery group animals only)

Urine samples were collected overnight (approximately 16 hrs) from all animals assigned to the Recovery groups according to the following schedule:

- predose
- during the treatment period on days 7, 14 and at the end of treatment
- at the end of the recovery period, prior to scheduled necropsy.

During the sampling period animals were deprived of food but water was provided. Urine was collected into a specimen vial, using a metabolism cage. After collection the samples were frozen and stored at -20°C at NOTOX until further analysis.

PATHOLOGY

NECROPSY

All animals surviving to the end of the observation period were deeply anaesthetised using ether vapour and subsequently exsanguinated. All animals assigned to the study were necropsied and descriptions of all macroscopic abnormalities recorded.

Prior to exsanguination a blood sample (1-2 ml) for serum collection was taken from the aorta. Serum samples were stored at -20°C at NOTOX until further analysis. Inadvertently, no serum sample was collected from all Main males and females from groups 1, 2, 3 and 6 (animal numbers 97-100, 113-116, 129-132 and 177-180). Instead, reserve samples intended for clinical biochemistry might be used for possible further analysis.

Samples of the following tissues and organs were collected from all animals at necropsy and fixed in neutral phosphate buffered 4% formaldehyde solution:

Identification marks**Adrenal glands****Aorta****Brain****Caecum****Colon****Duodenum****Epididymides****Eyes with optic nerve and Harderian gland****Female mammary gland area****Heart****Ileum****Jejunum****Kidneys****Liver****Lung, infused with formalin****Lymph nodes - mandibular, mesenteric****Oesophagus****Ovaries****Pancreas**

Peyer's patches (jejunum, ileum) if detectable
Pituitary gland
Prostate gland
Rectum
Salivary glands - mandibular
Sciatic nerve
Seminal vesicles
Spinal cord -cervical, midthoracic, lumbar
Spleen
Sternum with bone marrow
Stomach
Testes
Thymus
Thyroid including parathyroid
Trachea
Urinary bladder
Uterus
All gross lesions

ORGAN WEIGHTS

The following organ weights (and terminal body weight) were recorded from the surviving animals on the scheduled day of necropsy:

Adrenal glands
Brain
Heart
Kidneys
Liver
Ovaries
Spleen
Testes

Both absolute and relative (% body weight) organ weight data are included in the study report.

LIVER SAMPLING

From all animals surviving until the scheduled necropsy at least 1 gram of the left lateral liver lobe was frozen in isopentane/N₂. Liver samples were stored at -20°C at NOTOX and on 01 February 1999 dispatched on dry ice to the sponsor.

Analysis is performed under the responsibility of the sponsor. Results may be reported by the sponsor in a separate document.

HISTOTECHNOLOGY

All underlined organ and tissue samples (see under Necropsy) from all Main and Recovery group animals were processed, embedded and cut at a thickness of 2-4 micrometers and stained with haematoxylin and eosin.

HISTOPATHOLOGY

Slides of all underlined organs and tissues (see under Necropsy) collected at the scheduled sacrifice from all Main group animals of all dose groups as well as from all animals of all dose groups which died spontaneously, and all gross lesions of all animals (all dose groups) were examined by a pathologist. Based on treatment related morphologic changes, the following organs were also examined from all rats of Recovery groups 1 and 2:

- liver from males of the Vehicle control, Telomer Alcohol, PFHS and PFOS groups;
- liver from females of the Vehicle Control and PFOS groups;
- pancreas from males of the Vehicle Control and Telomer Alcohol groups.

All abnormalities were described and included in the report.

STATISTICAL ANALYSIS

The following statistical methods were used to analyse the data:

Univariate one-way analysis of variance was used to assess the significance of intergroup differences.

If the variables could be assumed to follow a normal distribution, the Dunnett-test (many-to-one t-test) based on a pooled variance estimate was applied for the comparison of the treated groups and the control groups for each sex.

The Steel-test (many-to-one rank test) was applied instead of the Dunnett-test when the data could not be assumed to follow a normal distribution.

All tests were two-sided and in all cases $p < 0.05$ was accepted as the lowest level of significance.

Group means were calculated for continuous data and medians were calculated for discrete data (scores) in the summary tables.

Test statistics were calculated on the basis of exact values for means and pooled variances. Individual values, means and standard deviations may have been rounded off before printing. Therefore, two groups may display the same printed means for a given parameter, yet display different test statistics values.

References:

- C.W. Dunnett
A Multiple Comparison Procedure for Comparing Several Treatments with a Control,
J. Amer. Stat. Assoc. 50, 1096-1121 (1955).
- R.G. Miller
Simultaneous Statistical Inference, Springer Verlag, New York (1981).

RESULTS

OBSERVATIONS

MORTALITY

No treatment-related mortality occurred during the study period.

One female receiving TELOMER ACRYLATE died following blood sampling, prior to necropsy. This was considered to be an accidental death.

CLINICAL SIGNS

TELOMER ALCOHOL

Rales were noted in one male immediately and 4 hours after dosing. This was observed at the end of the treatment period until the third week of recovery.

TELOMER ACRYLATE

A hunched posture was observed in two Main group females in weeks 2 and 3 of the treatment period and in two Recovery group females at the end of treatment and during the first week(s) of recovery. Piloerection was also observed in the one female during the first week of recovery. In general the findings were observed immediately and 4 hours after dosing.

A hunched posture was observed immediately and 4 hours after dosing in one Main group female from week 3 until the end of the treatment period.

PFHS

A hunched posture was observed immediately and 4 hours after dosing in one male at the end of treatment until the second day of recovery. A similar finding was seen 4 hours after dosing in one Main group female on one occasion at the end of treatment.

PFOS

A hunched posture was observed in two Main group females in weeks 3 and 4 of treatment. A swelling on the abdominal skin was observed in one Main group male at the end of the treatment period.

Other findings such as alopecia, salivation, a missing tail apex, red discolouration of the skin, wounds, scabs, scales, fissures with bleeding on the paws, swelling of the ear and eye abnormalities were noted among the treated and/or control animals. These findings were considered to be of no toxicological significance as incidences remained within the range of biological variation for rats of this age and strain or could be attributed to the blood sampling procedure.

BODY WEIGHT

TELOMER ALCOHOL

Body weight gain of males was decreased at the end of the recovery period when compared to the corresponding control values. Absolute body weights of these animals remained however within the range of control values.

TELOMER ACRYLATE

Body weights of females were slightly decreased when compared to control values at the end of the treatment period.

PFHS

Body weight gain of males was decreased at the end of the recovery period. Absolute body weights of these males were also below control values, but did not differ with statistical significance.

PFOS

Body weights and body weight gain of females were decreased with statistical significance from week 2 of treatment until the end of the recovery period. Statistical significance was achieved in the majority of cases, mainly for absolute body weights. Among males, body weight gain was reduced with statistical significance in weeks 3 and 4 of the recovery period. Absolute body weights of these males were also below control values, but did not differ with statistical significance.

Body weights and body weight gain of animals receiving remained in the same range as controls over the treatment and recovery period.

FOOD CONSUMPTION

PFHS

Absolute food consumption among males was slightly reduced at the end of the 4-week recovery period. However, after correction for body weight this effect was not observed anymore.

PFOS

Absolute food consumption of females was reduced from week 3 of treatment until the end of recovery. This effect was less apparent after allowance for body weight.

Among males, absolute food consumption was slightly reduced at the end of the 4-week recovery period, but relative food consumption was within control values.

There were no differences in food consumption before or after allowance for body weight between animals receiving TELOMER ALCOHOL, TELOMER ACRYLATE or and control animals.

CLINICAL LABORATORY INVESTIGATIONS

HAEMATOLOGY

TELOMER ALCOHOL

After 4 weeks, red blood cell count, haemoglobin and haematocrit values were decreased in females.

After 2 weeks recovery, prothrombin time was decreased in females.

After 4 weeks recovery, red cell distribution width was decreased in males.

TELOMER ACRYLATE

After 4 weeks, total red blood cell count was slightly decreased in males. This decrease was no apparent anymore after the 2- and 4-week drug-free recovery periods.

After 4 weeks, differential leucocyte count revealed decreased relative values of neutrophilic granulocytes and increased relative lymphocytes values in males. Partial thromboplastin time was increased in males of this dose group.

Prothrombin time was decreased in females.

After 2 weeks recovery, prothrombin time was still decreased in females.

After 4 weeks recovery, red cell distribution width was decreased in males.

PFHS

After 4 weeks, total red blood cell count, haemoglobin, haematocrit, total number of platelets and prothrombin time were decreased in males. Total red blood cell count, haematocrit and prothrombin time were decreased in females. After 2 weeks recovery, prothrombin time and total platelet numbers were decreased in females.

After 4 weeks recovery, no statistically significant differences when compared to controls were observed.

PFOS

After 4 weeks, mean corpuscular haemoglobin was increased in males and haematocrit and prothrombin time were decreased in females.

After the 2- and 4-week drug-free recovery periods no statistically significant differences were observed.

CLINICAL BIOCHEMISTRY

TELOMER ALCOHOL

After 4 weeks, total cholesterol, total protein and globulin values were decreased in males.

After 2 weeks recovery, total protein was still decreased in males.

After 4 weeks recovery, total cholesterol, total protein, potassium and calcium values were decreased in males.

TELOMER ACRYLATE

After 4 weeks, total cholesterol, total protein and globulin were decreased and albumin/globulin ratios were increased in males.

After 2 weeks recovery these differences were not apparent anymore.

After 4 weeks recovery, total protein, potassium and calcium values were decreased in males.

After 4 weeks, aspartate aminotransferase activity, total protein, globulin and potassium values were decreased and albumin/globulin ratios were increased in males.

After 2 weeks recovery, glucose values were increased and sodium values were decreased in males. Urea was increased in females.

After 4 weeks recovery, total protein, inorganic phosphate, potassium and calcium values were decreased in males.

PFHS

After 4 weeks, aspartate aminotransferase activity, total cholesterol, triglycerides, total protein and globulin values were decreased and albumin/globulin ratios, alkaline phosphatase activity and chloride were increased in males. Total cholesterol was decreased and chloride values were increased in females.

After 2 weeks recovery, no statistically significant differences were observed anymore.

After 4 weeks recovery, total cholesterol, glucose and potassium values in males were below control values with statistical significance.

PFOS

After 4 weeks, aspartate aminotransferase activity, total cholesterol, triglycerides, total protein and globulin values were decreased and albumin/globulin ratios and chloride were increased in males. Urea and chloride values were increased in females.

After 2 weeks recovery no such findings were observed.

After 4 weeks recovery, aspartate aminotransferase activity, total bilirubin, total protein, potassium and calcium values were decreased and chloride was increased in males.

PATHOLOGY

MACROSCOPIC EXAMINATION

Macroscopic observations at necropsy did not reveal any alterations that were considered to have arisen as a result of treatment.

The few macroscopic findings recorded at all sacrifices were unremarkable and did not distinguish treated rats from the vehicle control group.

ORGAN WEIGHTS

PFHS

After 4 weeks, liver weights and liver:body weight ratios were increased in males.

After 2 and 4 weeks recovery, this effect had disappeared.

Increased brain:body weight and testes:body weight ratios observed after the 4-week recovery period is attributed to the slightly low autopsy body weights of these animals.

PFOS

After 4 weeks, autopsy body weights were decreased in females. Liver weights and liver:body weight ratios were increased in males and females. Kidney:body weight ratios were increased in females.

After 2 weeks recovery, liver weights and liver:body weight ratios were still increased in males.

After 4 weeks recovery, liver:body weight ratios were increased in males and females and kidney:body weight ratios were increased in females.

Other changes noted in PFOS treated animals included decreased absolute heart weights and increased brain:body weight ratios in females after 4 weeks of treatment and 2 weeks recovery. In addition, absolute spleen weights were increased in males after 2 weeks recovery and testes:body weight ratios were increased after 4 weeks recovery. All these changes were likely to reflect slightly low or high body weights at autopsy.

Organ weights and organ:body weight ratios of animals treated with TELOMER ALCOHOL, TELOMER ACRYLATE or were considered to be similar to those of control animals.

MICROSCOPIC EXAMINATION (see Appendix 1)TELOMER ALCOHOL

After 4 weeks, midzonal/centrilobular hypertrophy was seen at a minimal or slight degree in six males. In the pancreas a slight increase in the incidence of minimal or slight degrees of exocrine apoptosis/single cell necrosis was recorded in six males.

After 2 and 4 weeks recovery, the liver changes had partially or completely resolved and the pancreas findings returned to the level of the vehicle control group.

PFHS

After 4 weeks, midzonal/centrilobular hypertrophy was seen at slight to moderate degrees in all males.

After 2 weeks recovery, this finding had partially resolved.

After 4 weeks recovery, this finding had completely resolved.

PFOS

After 4 weeks, midzonal/centrilobular hypertrophy was seen at minimal to moderate degrees in all males and females.

After 2 and 4 weeks recovery, this finding had partially or completely resolved in females, however remained in evidence in males.

The remainder of the microscopic findings recorded after treatment and recovery were within the range of background pathology encountered in Sprague Dawley rats of this age ad strain and occurred at similar incidences and severity in both control and treated rats.

DISCUSSION AND CONCLUSION

Following daily oral administrations of TELOMER ALCOHOL, TELOMER ACRYLATE, PFHS or PFOS to male and female Sprague Dawley rats for at least 28 days, treatment-related changes were most pronounced in the TELOMER ALCOHOL, PFHS and PFOS groups.

Hepatocellular hypertrophy in the liver together with higher liver weights was seen in animals receiving PFHS and PFOS. In the TELOMER ALCOHOL group the hepatic hypertrophy was not accompanied by increased liver weights. This liver enlargement is most likely related to the higher enzymatic activity in metabolising a xenobiotic compound. Among males receiving PFOS this effect was rather persistent since it was still observed at the end of the 4-week drug-free period.

Minimal to slight exocrine apoptosis/single cell necrosis was recorded in the pancreas of males receiving TELOMER ALCOHOL for 4 weeks and had resolved after the recovery period.

Investigations of the blood showed that various parameters were slightly reduced in one or both sexes after treatment. The most characteristic decreases were:

- total protein and globulin in all dose groups;
- total cholesterol in all dose groups except for the group;
- triglycerides in the PFHS and PFOS groups;
- aspartate aminotransferase activity and prothrombin time in the
PFHS and PFOS groups.

In the majority of cases these changes were not observed anymore after a 2-week drug-free period. A possible explanation for these changes could be liver damage as the liver is involved in the synthesis and metabolism of these compounds. However, the only microscopic change noted in the liver was hepatocellular hypertrophy in the TELOMER ALCOHOL, PFHS and PFOS groups only. Moreover, it should be noted that the majority of values remained within the range of values that can be expected for animals of this age and strain. Changes in clinical biochemistry parameters noted after 4 weeks of recovery but not after 2 weeks were considered to have occurred by chance. At this time point in the study it seems very unlikely that they represent an effect of treatment.

Fluctuations in electrolyte levels were seen at all time points in all dose groups. Moreover, urea levels and kidney weights were increased after treatment in females receiving PFOS. However, in the absence of evidence of renal dysfunction at microscopic level these changes are considered to be of little toxicological relevance.

Haematological examination revealed slightly decreased red blood cell counts, haemoglobin and/or haematocrit values in animals treated with TELOMER ALCOHOL, TELOMER ACRYLATE, PFHS and PFOS. However, since the effects were slight in nature and no further evidence of an anaemic response was obtained at macroscopic or microscopic level, the toxicological relevance of these findings is doubted. Other haematological changes noted were not supported by corresponding signs of toxicity and again the toxicological impact is considered to be of little relevance also because the values were within the range of historical data.

An effect on body weight and food consumption was most pronounced among females receiving PFOS. This effect lasted until the end of the recovery period. Body weights of females receiving TELOMER ACRYLATE were slightly reduced at the end of treatment. Other effects on body weight gain and food consumption were mainly seen at the end of the recovery period and therefore no toxicological relevance is attached to these findings.

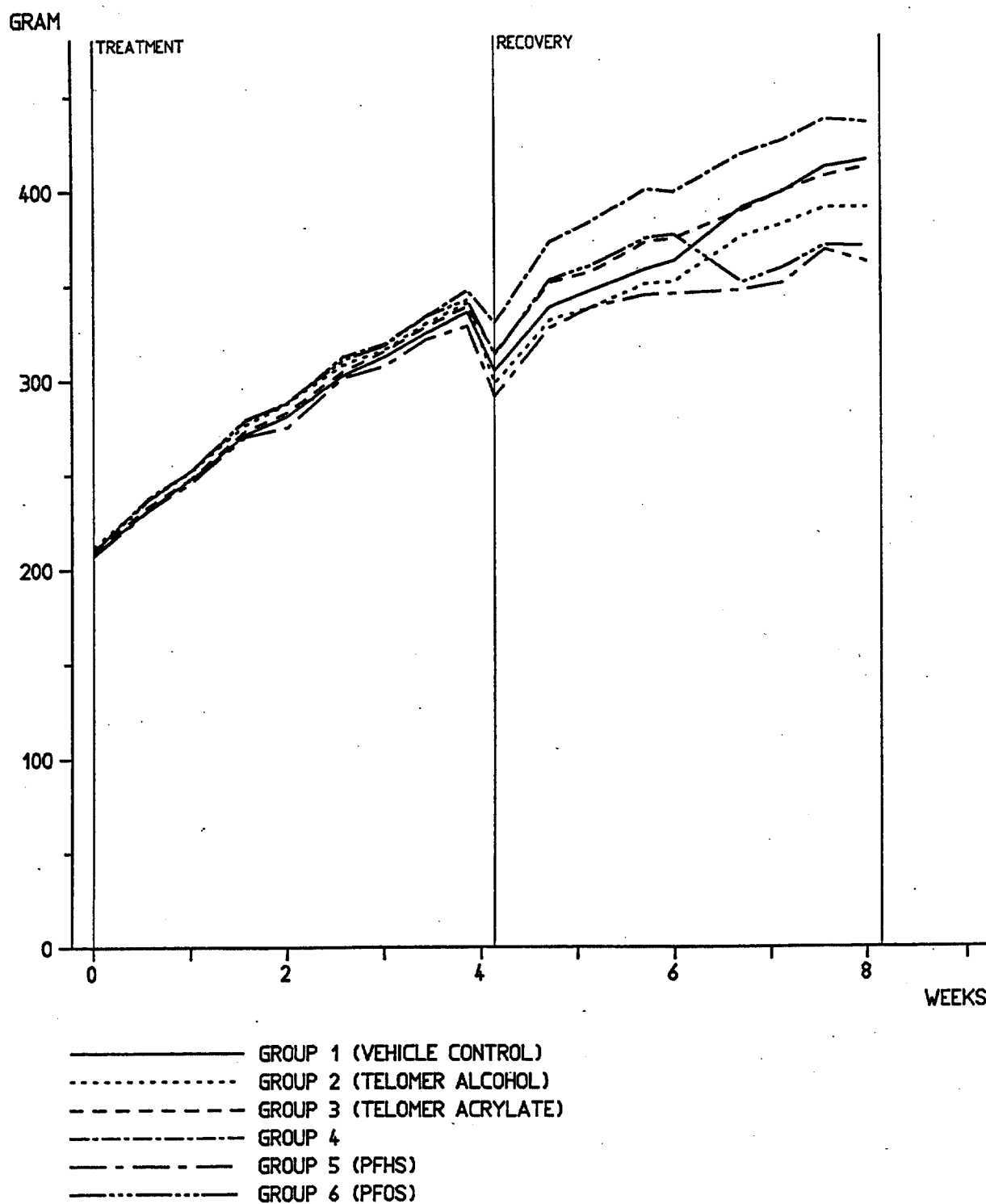
Clinical signs such as a hunched posture, piloerection and/or rales were observed incidentally in all five dose groups in a few animals only. At this low incidence and the severity observed these symptoms are considered not to represent a clear indication of toxicity.

From the results presented in this report it can be concluded that the positive control compound PFOS dosed at 3 mg/kg/day was indeed the compound with the most striking and persistent effects, mainly in the liver. Compounds with comparable but less severe effects as PFOS included PFHS (10 mg/kg/day) and TELOMER ALCOHOL (30 mg/kg/day).

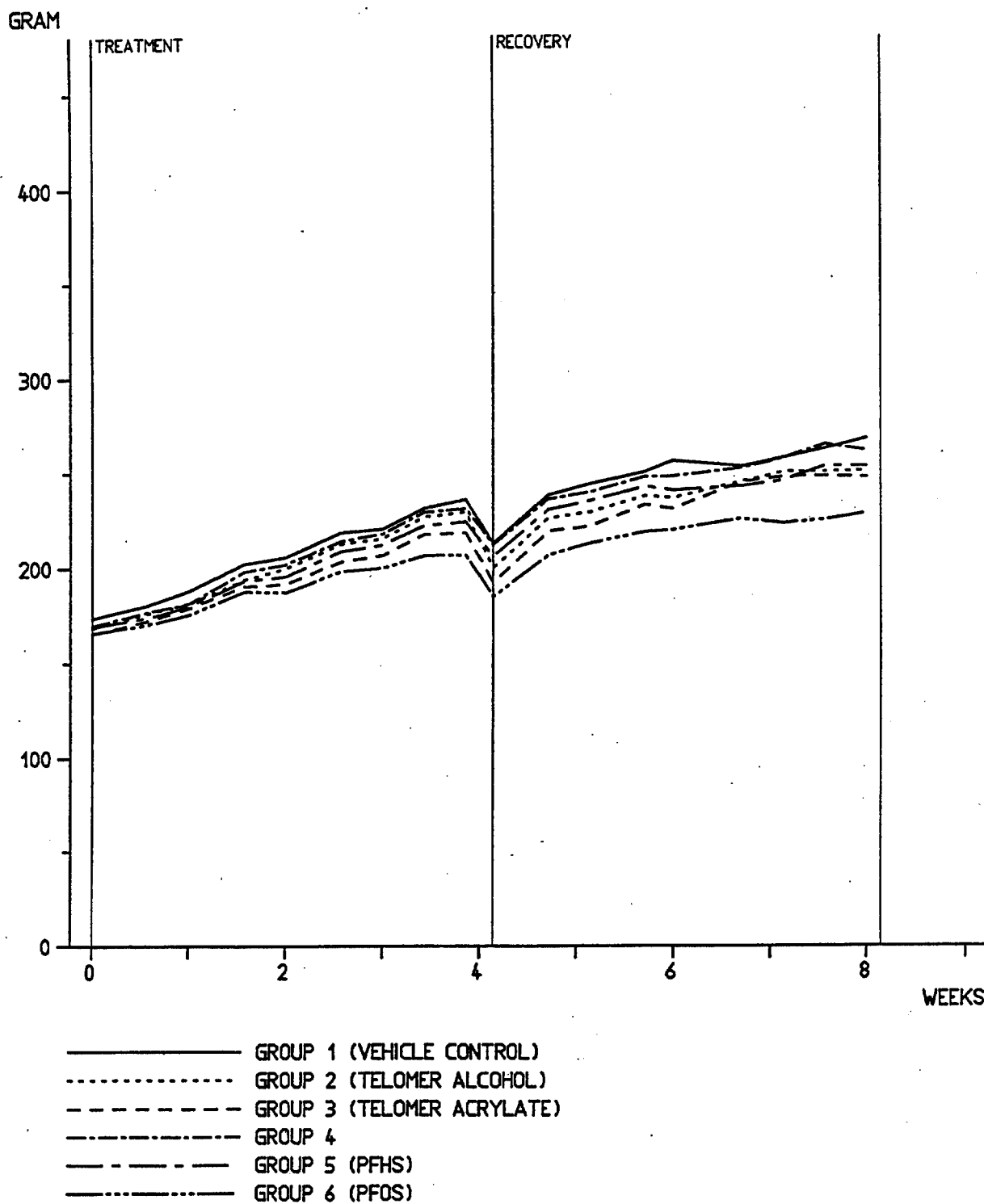
Despite slightly reduced body weights in females (TELOMER ACRYLATE only) and some slight changes in the blood after treatment, 30 mg/kg TELOMER ACRYLATE or per day did not result in clear systemic toxicity and organ dysfunction at macroscopic or microscopic level.

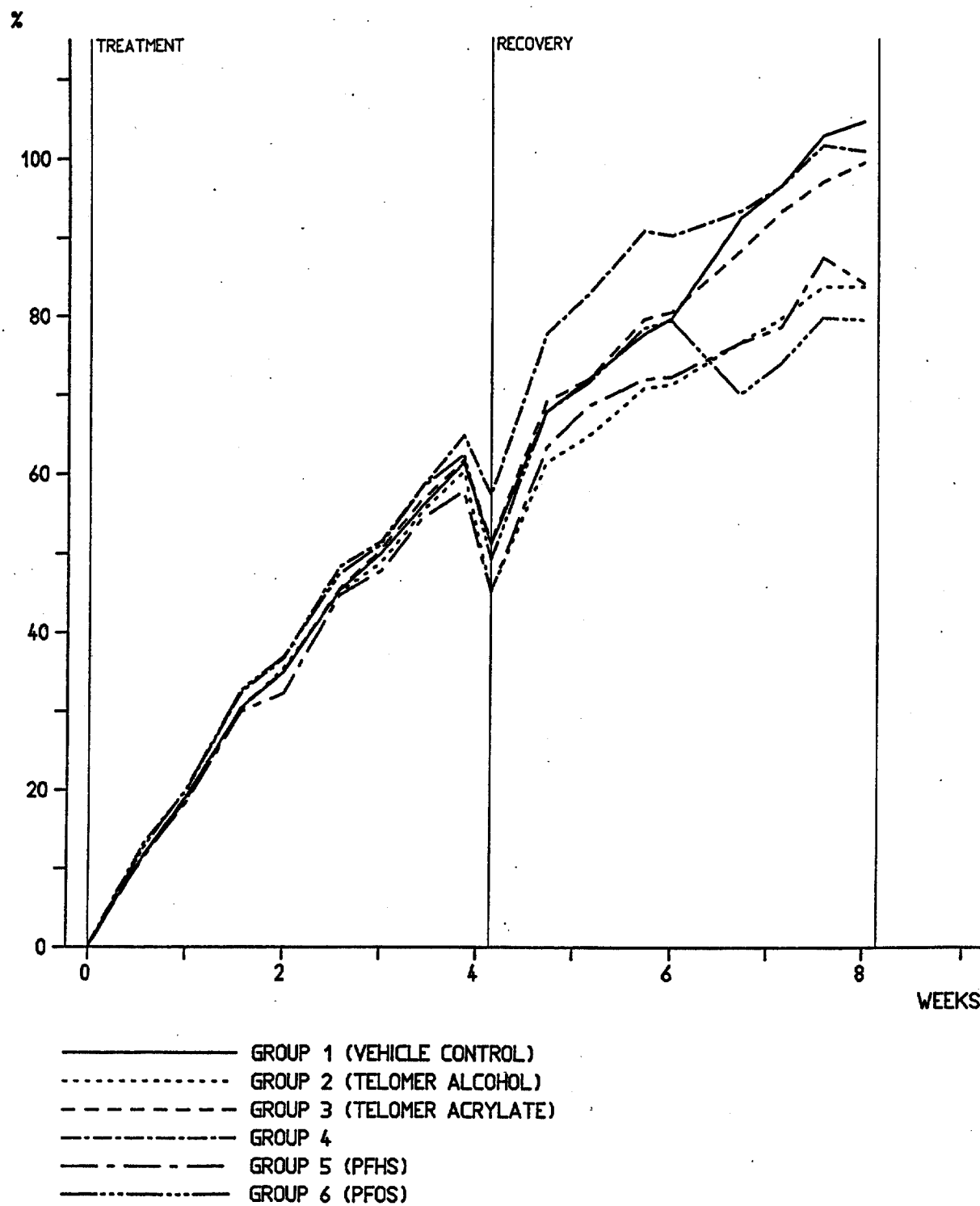
FIGURES

BODY WEIGHTS MALES

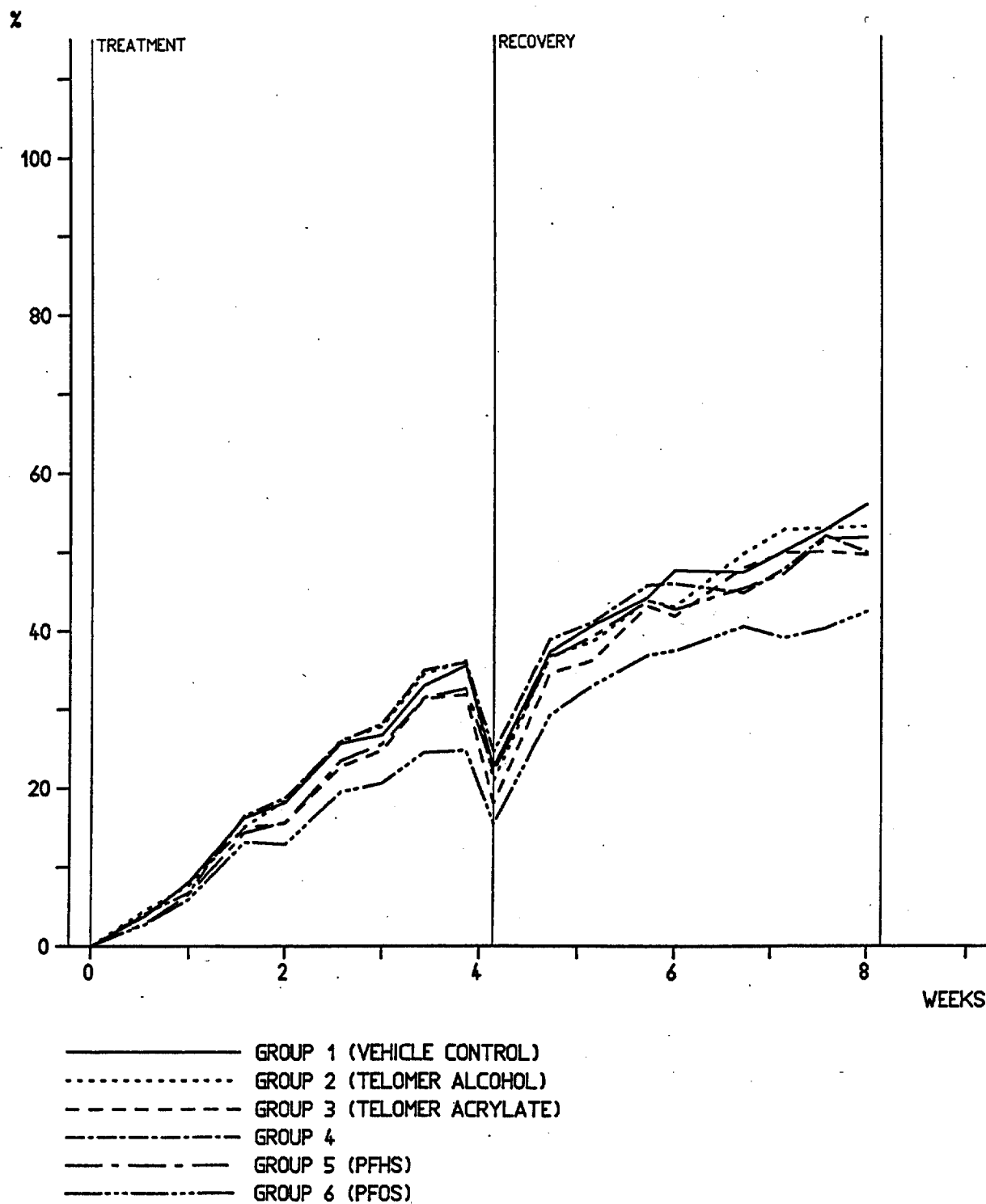


BODY WEIGHTS FEMALES

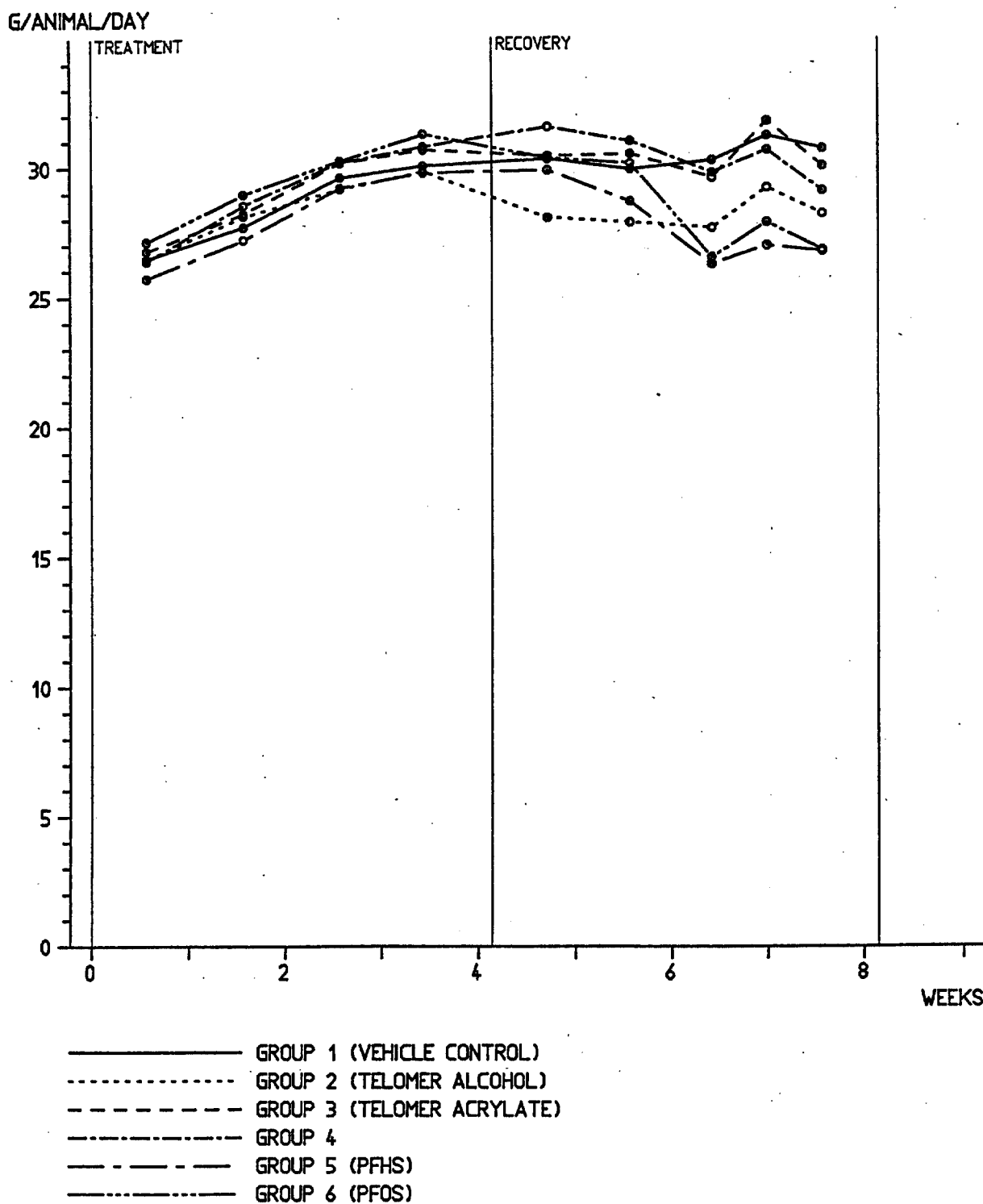


BODY WEIGHT GAIN
MALES

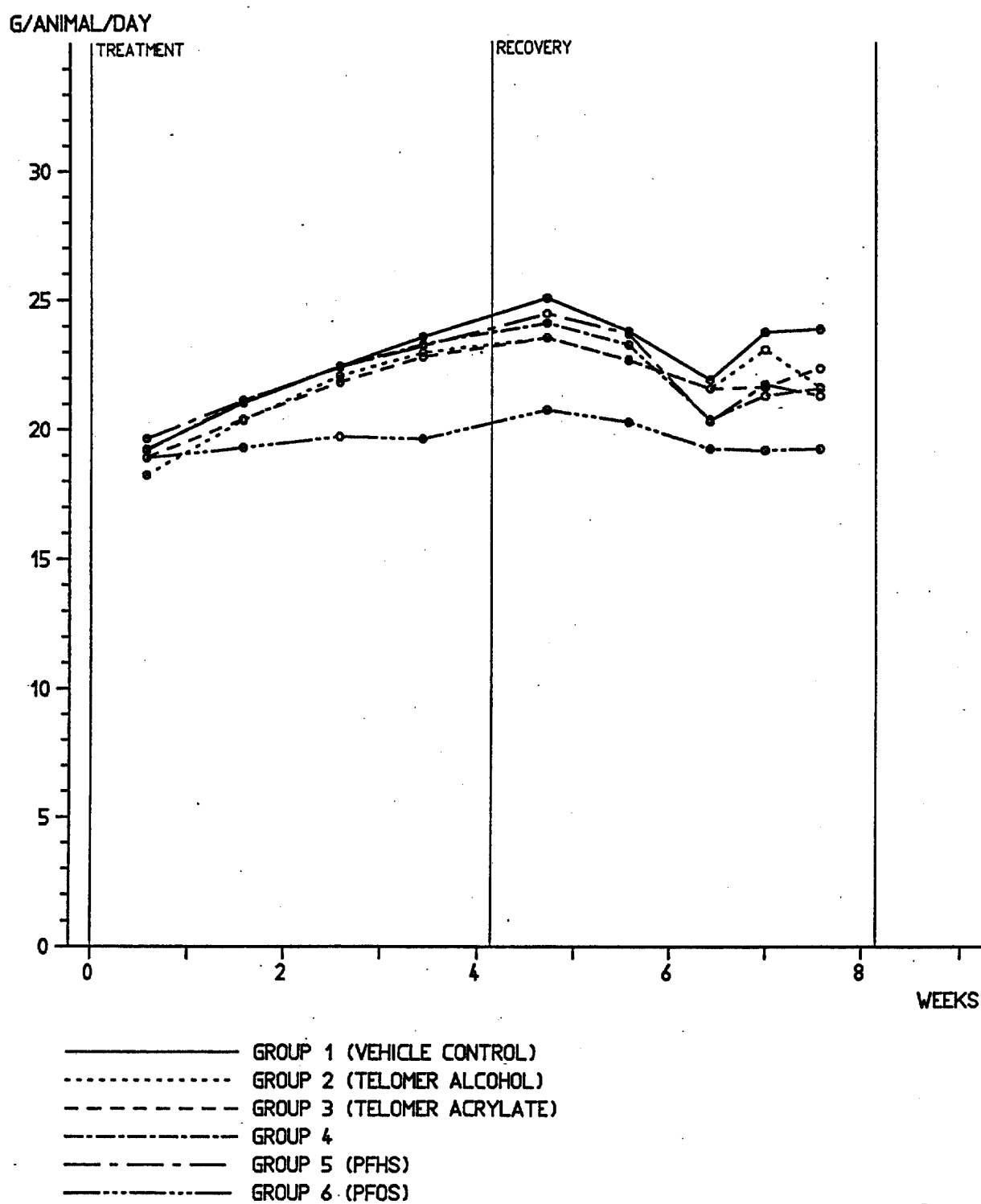
BODY WEIGHT GAIN FEMALES

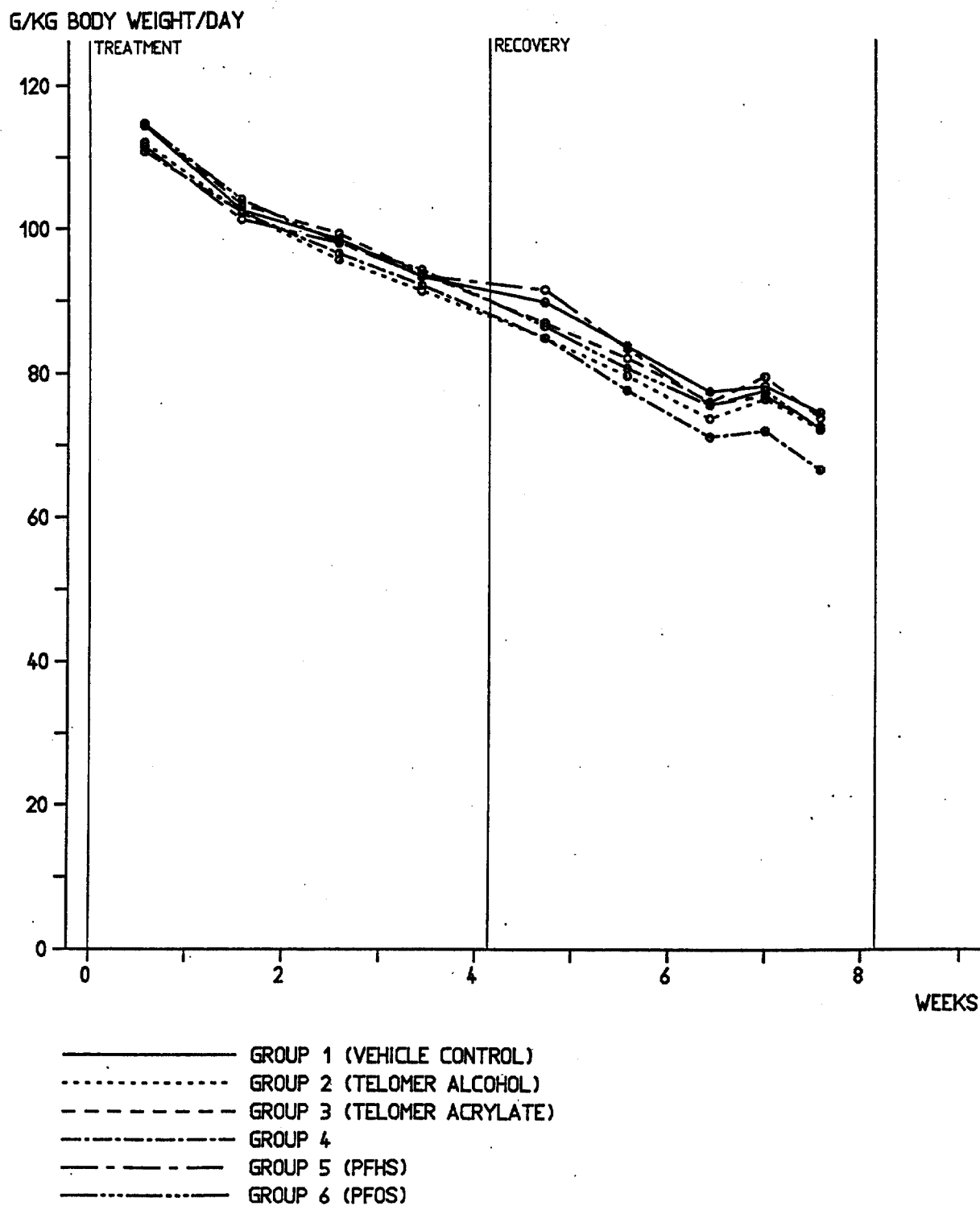


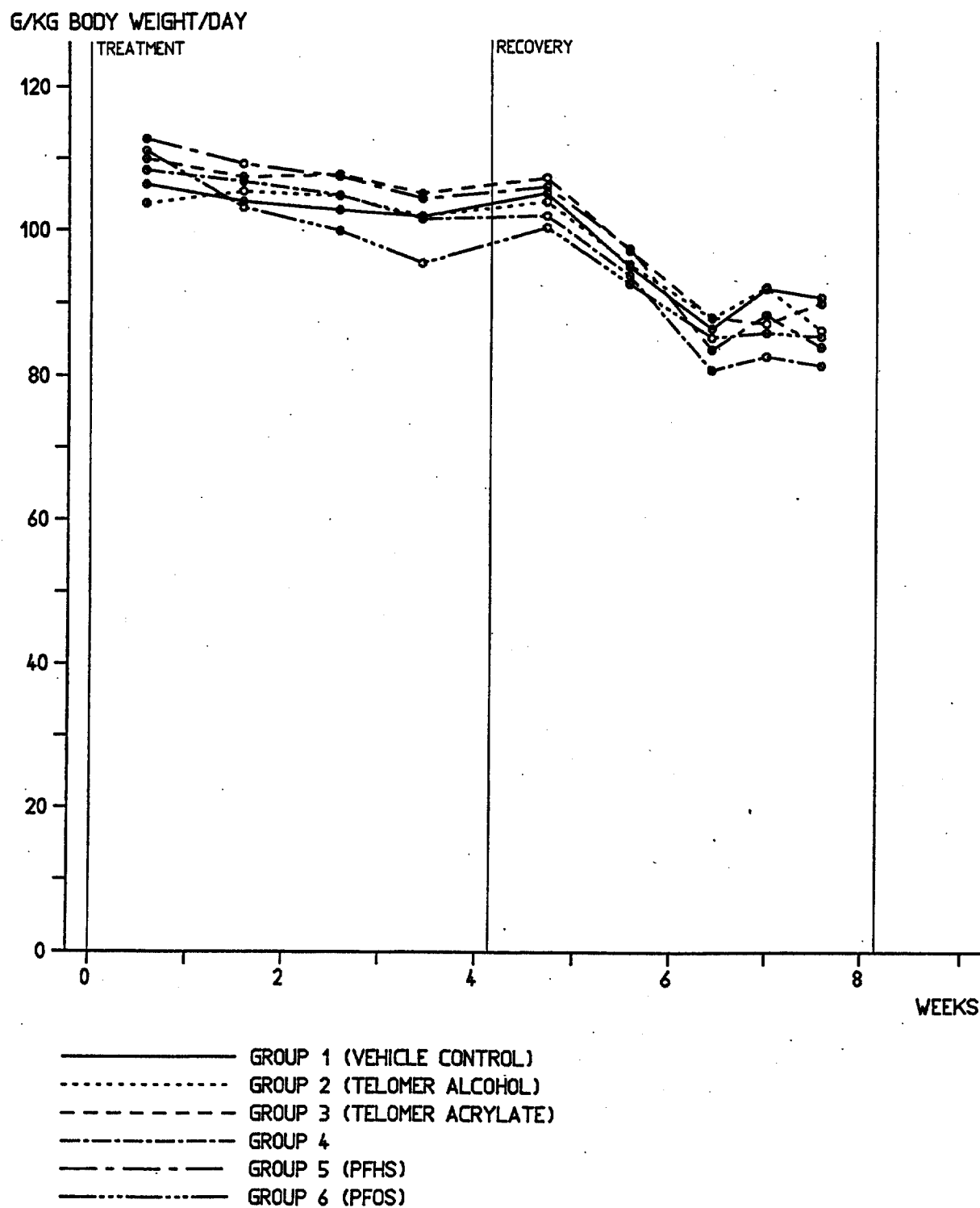
FOOD CONSUMPTION MALES



FOOD CONSUMPTION FEMALES



RELATIVE FOOD CONSUMPTION
MALES

RELATIVE FOOD CONSUMPTION
FEMALES

TABLES - SUMMARY DATA

CLINICAL SIGNS, DAILY (SUMMARY)
MALES
GROUP 1 (VEHICLE CONTROL)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:12222222.....
(CHEST)	%:22222222.....

VARIOUS

BULGING EYE (1)	G: 11.....
(EYE RIGHT)	%: 12.....

DARK (3)	G: 11.....
(EYE RIGHT)	%: 12.....

[illegible]

RALES (3)

G:111

8:111

ALOPECIA (3) G:11111111.....
(CHEEK RIGHT) #:11111111.....

ALOPECIA (3) G:11111.....
(NECK) #:11111.....

ALOPECIA (3) G:111111111111111111111111111111111111
(ABDOMEN) %:111111111111111111111111111111111111

ALOPECIA (3) G:11.....
(SHOULDER LEFT) #:11.....

ALOPECIA (3) G:1111111.....
(FORELEG LEFT) #:1111111.....

SCABS (3) G:1
(SNOUT) #:1

SCABS (3) G: 1
(BACK) #: 1

SCABS (3) G:11.....1111.....
(NECK) #:11.....1111.....

WOUND (3) G: 1
(GENITAL REGION) #: 1

RED STAINING (3) G:
(PERIORBITAL REGION LEFT) %:

RED STAINING (3) G:
(PERIORBITAL REGION RIGHT) %:

000040

SIGN (MAX.GRADE) RECOVERY
LOCATION WEEKS: 1.....2.....3.....4.....5.

RALES (3)

G: 111111111111111..1111.....
 #: 1222222222222223..3333.....

ALOPECIA (3)
(ABDOMEN)

G: 1111.....
 #: 1222.....

SCABS (3)
(SNOUT)

G: 11.....
 #: 12.....

RED STAINING (3)
(PERIORBITAL REGION LEFT)

G:111.....
 #:222.....

RED STAINING (3)
(PERIORBITAL REGION RIGHT)

G:1.....
 &:2.....

CLINICAL SIGNS, DAILY (SUMMARY)
MALES
GROUP 3 (TELOMER ACRYLATE)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

RED STAINING (3)
(NECK)G:111111.
%:333333.

G: Median value of the highest individual daily grades
%: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

CLINICAL SIGNS, DAILY (SUMMARY)

MALES

GROUP 4

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:1111111111111111.
(EYE RIGHT)	%:2223333333333333.

VARIOUS

EYE RIGHT, INJURED (1)	G: 1111111111111111111111111111.
	%: 1222222222222222333333333333.

DEHYDRATED (3)	G: .22222.....
(EYE RIGHT)	%: .22222.....

BULGING EYE (1)	G: 11111.....
(EYE RIGHT)	%: 12222.....

DARK (3)	G: 11111.....
(EYE RIGHT)	%: 23222.....

CLINICAL SIGNS, DAILY (SUMMARY)
MALES
GROUP 5 (PFHS)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

POSTURE

HUNCHED POSTURE (1)

G: 11.....
%: 12.....

SKIN / FUR / PLUMAGE

RED STAINING (3)
(NECK)

G:11.....
%:22.....

RED STAINING (3)
(CERVICAL REGION)

G:111111111111111111.
%:222223333333333333.

VARIOUS

DARK (3)
(EYE RIGHT)

G: 11.....
%: 12.....

G: Median value of the highest individual daily grades
 %: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

CLINICAL SIGNS (SUMMARY)

MALES

GROUP 6 (PFOS)

	TREATMENT
WEEKS:	1.....2.....3.....4.....5.
DAYS:	1.2.3.4.5.6.7.1.2.3.4.5.6.7.1.2.3.4.5.6.7.1.
SIGN (MAX.GRADE)	TIME: AA

SKIN / FUR / PLUMAGE

SWELLING (3) (ABDOMEN)	G:111111..
	%:111111..
ALOPECIA (3) (CHEEK LEFT)	G:111111111111.....
	%:111111111111.....
SCABS (3) (NECK)	G:111111.....
	%:111111.....
RED STAINING (3) (HEAD)	G:111111.....
	%:111111.....

G: Median value of the highest individual grades
 %: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)
 Time after treatment (H.Mi) A: 0.00 B: 4.00

CLINICAL SIGNS, DAILY (SUMMARY)
MALES
GROUP 6 (PFOS)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

RED STAINING (3)
(HEAD)G:11111111.
%:33333333.

G: Median value of the highest individual daily grades
%: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

CLINICAL SIGNS, DAILY (SUMMARY)
FEMALES
GROUP 1 (VEHICLE CONTROL)SIGN (MAX.GRADE) RECOVERY
LOCATION WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

ALOPECIA (3) (GENERAL)	G:1111111111 %:3333333333
ALOPECIA (3) (CHEEK LEFT)	G:11..... %:33.....
ALOPECIA (3) (BACK)	G:1111111111..... %:2222222233.....
ALOPECIA (3) (NECK)	G:1111..... %:2222.....
ALOPECIA (3) (ABDOMEN)	G:1111111111..... %:2222222233.....
ALOPECIA (3) (FLANK LEFT)	G: 1111111111111111..... %: 1222222222222233.....
ALOPECIA (3) (FLANK RIGHT)	G: 1112222222222222..... %: 1222222233322233.....
ALOPECIA (3) (THIGH HIND LEFT)	G: ...1111111111..... %: ...2222222222.....
ALOPECIA (3) (THIGH HIND RIGHT)	G: 1111111111111111..... %: 1222222222222222.....
SCABS (3) (ABDOMEN)	G: ...1111111111..... %: ...2222222222.....

G: Median value of the highest individual daily grades
 %: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

[illegible]

ALOPECIA (3)	G:	
(HEAD)	%:	
ALOPECIA (3)	G:1111111111.....	
(CHEEK LEFT)	%:1111111111.....	
ALOPECIA (3)	G:11	
(CHEEK RIGHT)	%:11	
ALOPECIA (3)	G:11111	
(BACK)	%:11111	
ALOPECIA (3)	G: 111111111111111111.....1.....	
(NECK)	%: 111111111111111111.....1.....	
ALOPECIA (3)	G:1111111112..	
(FORELEGS)	%:1111111111..	
SCALES (3)	G:	
(CHEEK LEFT)	%:	
SCALES (3)	G:	
(CHEEK RIGHT)	%:	
SCABS (3)	G:11	
(FLANK LEFT)	%:11	
RED STAINING (3)	G:11	
(EAR RIGHT)	%:11	

CLINICAL SIGNS, DAILY. (SUMMARY)
FEMALES
GROUP 2 (TELOMER ALCOHOL)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:2222211.....
(HEAD)	%:222222.....
ALOPECIA (3)	G: .11122222222.....
(CHEEK LEFT)	%: .22223333333.....
ALOPECIA (3)	G:12222222.....
(CHEEK RIGHT)	%:33333333.....
SCALES (3)	G:111111.....
(CHEEK LEFT)	%:222222.....
SCALES (3)	G:111111.....
(CHEEK RIGHT)	%:222222.....

G: Median value of the highest individual daily grades
%: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

[illegible]

```

HUNCHED POSTURE (1)      G: .....111111111111.....11111111
                          #: .....111111111111.....11111111

```

FILOERECTION (1) G:
 \$:

ALOPECIA (3) G: 11112222111111111111111111111111212222221111111111111111
(ABDOMEN) #: 1111111111112222111111111133321111111222223222222211111

ALOPECIA (3) G:1111111111.....
(CHEST) #:1111111111.....

ALOPECIA (3) G:1111111.....
(SHOULDER LEFT) #:1111111.....

FISSURES WITH BLEEDINGS (3)	G:	11
(PAW HIND RIGHT)	%:	11

```
SCABS (3)          G: .....11
(BACK)            #: .....11
```

SCABS (3) G:111111
(NECK) \$:111111

```

RED STAINING (3)      G: .....111.....1111111..
(HEAD)               $: .....111.....1111111..

```

RED STAINING (3) G:111111.....
(BACK) %:111111.....

RED STAINING (3) G:111111111111.....1111....
(NECK) #:111111111111.....1111....

RED STAINING (3) G:1111111111111111..
(PAW HIND RIGHT) #:1111111111111111..

G: Median value of the highest individual grades
 %: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)
 Time after treatment (H.Mi) A: 0.00 B: 4.00

CLINICAL SIGNS, DAILY (SUMMARY)
FEMALES
GROUP 3 (TELOMER ACRYLATE)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

POSTURE

HUNCHED POSTURE (1)	G: 1111111111111111.....
	%: 23333332222222.....

SKIN / FUR / PLUMAGE

PILOERECTION (1)	G: .1111.....
	%: .2222.....

ALOPECIA (3)	G: 1111111111111111.....
(ABDOMEN)	%: 12222222222222.....

RED STAINING (3)	G:11
(HEAD)	%:77

G: Median value of the highest individual daily grades
%: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

[illegible]

WATERY DISCHARGE FROM EYE (3) G:
(EYE RIGHT) #:

000056

CLINICAL SIGNS, DAILY (SUMMARY)
FEMALES
GROUP 4

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

SCABS (3)	G:1.
(NECK)	%:3.

RED STAINING (3)	G: ...11.....
(EYE RIGHT)	%: ...22.....

RED STAINING (3)	G:11.....1111.....
(PERIORBITAL REGION RIGHT)	%:22.....3333.....

SECRETION / EXCRETION

WATERY DISCHARGE FROM EYE (3)	G:11.....
(EYE RIGHT)	%:23.....

[illegible]

G:1..

8:1..

```
G: .....111111211111.....
%: .....111111111111.....
```

```
G: ..1111111122222211111111111111111111222222222222..
&: ..111111111111111111111133333333443333222222221111111111..
```

```
G: .....111111111222222222222222222222222222111111111111
g: .....111111111111111111111111111111111111111111111
```

G:1.
8:1.

G:
8:

G: 11111122221111111111112222221111111111111111111111...
 #: 111..

```
G: .....11..11111222211.....
g: .....11..11111111111.....
```

G:1.....
 #:1.....

G: Median value of the highest individual grades
 %: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)
 Time after treatment (H.Mi) A: 0.00 B: 4.00

CLINICAL SIGNS, DAILY (SUMMARY)
FEMALES
GROUP 5 (PFHS)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:11
(BACK)	%:33
ALOPECIA (3)	G: 111..11111111111111111111
(NECK)	%: 122..22222333337777777777
ALOPECIA (3)	G: 111....111111111111111111
(ABDOMEN)	%: 122....222222233333333333
ALOPECIA (3)	G:1111.....
(HINDLEG RIGHT)	%:2222.....

G: Median value of the highest individual daily grades
 %: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

CLINICAL SIGNS, DAILY (SUMMARY)
FEMALES
GROUP 6 (PFOS)

SIGN (MAX.GRADE)	RECOVERY
LOCATION	WEEKS: 1.....2.....3.....4.....5.

SKIN / FUR / PLUMAGE

ALOPECIA (3) (ABDOMEN)	G: 11111..... %: 12222.....
RED STAINING (3) (HEAD)	G: 111111111111..... %: 12255332222233.....
RED STAINING (3) (EAR LEFT)	G: ...11111111..... %: ...22222222.....
RED STAINING (3) (EAR RIGHT)	G:111..... %:222.....
RED STAINING (3) (NECK)	G:11111..... %:22222.....

G: Median value of the highest individual daily grades
%: Percent of affected animals (0 = less than 5%, 1 = between 5% and 15%, ..., A = more than 95%)

**BODY WEIGHTS (GRAM) SUMMARY
MALES**

TREATMENT			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	208	212	209	210	208	210
WEEK	1	ST.DEV.	14.0	13.5	9.2	9.4	13.8	10.9
		N	14	14	14	14	14	14
DAY	5	MEAN	232	237	234	238	231	237
WEEK	1	ST.DEV.	14.9	14.4	8.9	10.8	16.5	13.9
		N	14	14	14	14	14	14
DAY	8	MEAN	248	252	248	252	246	252
WEEK	2	ST.DEV.	19.8	17.6	11.8	13.2	23.4	17.8
		N	14	14	14	14	14	14
DAY	12	MEAN	272	277	273	279	270	279
WEEK	2	ST.DEV.	20.7	18.6	9.3	17.7	24.5	21.0
		N	14	14	14	14	14	14
DAY	15	MEAN	281	288	283	288	275	288
WEEK	3	ST.DEV.	25.2	22.9	10.9	19.4	26.3	25.2
		N	14	14	14	14	14	14
DAY	19	MEAN	302	308	304	312	301	310
WEEK	3	ST.DEV.	26.8	23.2	10.3	24.1	30.4	29.0
		N	14	14	14	14	14	14
DAY	22	MEAN	312	316	315	319	307	318
WEEK	4	ST.DEV.	27.4	23.6	9.5	26.5	31.9	31.4
		N	14	14	14	14	14	14
DAY	25	MEAN	324	329	328	333	321	333
WEEK	4	ST.DEV.	29.8	25.4	12.6	28.4	34.8	33.5
		N	14	14	14	14	14	14
DAY	28	MEAN	336	340	338	347	328	342
WEEK	4	ST.DEV.	29.9	27.5	13.0	31.6	37.1	33.7
		N	14	14	14	14	14	14

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**BODY WEIGHTS (GRAM) SUMMARY
MALES**

RECOVERY			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	304	298	314	330	291	313
WEEK	1	ST.DEV.	27.9	20.2	12.4	28.2	40.4	40.4
		N	6	6	6	6	6	6
DAY	5	MEAN	338	331	351	372	327	352
WEEK	1	ST.DEV.	31.2	28.8	23.5	31.8	45.4	46.8
		N	6	6	6	6	6	6
DAY	8	MEAN	346	338	356	383	338	360
WEEK	2	ST.DEV.	32.8	28.1	20.9	35.2	46.9	46.0
		N	6	6	6	6	6	6
DAY	12	MEAN	358	350	372	400	344	374
WEEK	2	ST.DEV.	32.8	28.5	21.0	36.9	48.5	46.8
		N	6	6	6	6	6	6
DAY	14	MEAN	362	351	374	398	345	376
WEEK	2	ST.DEV.	32.4	28.6	20.8	38.0	47.6	47.6
		N	6	6	6	6	6	6
DAY	19	MEAN	391	375	389	419	347	351
WEEK	3	ST.DEV.	24.6	35.7	7.2	35.0	19.1	39.7
		N	3	3	3	3	3	3
DAY	22	MEAN	399	382	399	426	351	359
WEEK	4	ST.DEV.	24.2	33.5	5.5	37.6	19.1	38.6
		N	3	3	3	3	3	3
DAY	25	MEAN	412	391	407	437	368	371
WEEK	4	ST.DEV.	25.2	38.5	7.8	38.7	20.8	34.8
		N	3	3	3	3	3	3
DAY	28	MEAN	415	391	412	435	362	370
WEEK	4	ST.DEV.	26.7	37.1	2.6	37.6	20.8	39.3
		N	3	3	3	3	3	3

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**BODY WEIGHTS (GRAM) SUMMARY
FEMALES**

TREATMENT			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	174	169	166	170	169	166
WEEK	1	ST. DEV.	11.9	8.0	10.0	11.9	8.0	8.7
		N	14	14	14	14	14	14
DAY	5	MEAN	181	176	173	177	174	171
WEEK	1	ST. DEV.	14.3	8.5	11.2	14.5	10.4	9.8
		N	14	14	14	14	14	14
DAY	8	MEAN	188	182	179	182	180	176
WEEK	2	ST. DEV.	15.6	11.9	13.2	15.9	9.8	10.1
		N	14	14	14	14	14	14
DAY	12	MEAN	202	194	191	198	194	188 *
WEEK	2	ST. DEV.	16.2	11.9	13.3	16.8	10.9	9.8
		N	14	14	14	14	14	14
DAY	15	MEAN	206	200	192	202	196	187 *
WEEK	3	ST. DEV.	19.8	15.0	15.0	18.2	11.3	11.5
		N	14	14	14	14	14	14
DAY	19	MEAN	219	213	203	214	209	198 **
WEEK	3	ST. DEV.	20.1	15.5	15.5	19.6	11.3	12.7
		N	14	14	14	14	14	14
DAY	22	MEAN	221	216	207	218	212	200 **
WEEK	4	ST. DEV.	19.4	15.7	16.9	20.4	12.6	13.2
		N	14	14	14	14	14	14
DAY	25	MEAN	232	227	218	230	222	207 **
WEEK	4	ST. DEV.	21.4	16.5	17.3	18.6	13.0	14.3
		N	14	14	14	14	14	14
DAY	28	MEAN	236	230	219 *	231	224	207 **
WEEK	4	ST. DEV.	21.8	16.9	17.0	20.5	12.6	13.3
		N	14	14	14	14	14	14

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**BODY WEIGHTS (GRAM) SUMMARY
FEMALES**

RECOVERY			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	213	200	193	212	206	185 *
WEEK	1	ST.DEV.	21.9	9.9	16.2	23.9	12.8	7.0
		N	6	6	6	6	6	6
DAY	5	MEAN	239	226	219	236	231	207 *
WEEK	1	ST.DEV.	24.1	11.3	18.2	20.3	14.4	9.5
		N	6	6	6	6	6	6
DAY	8	MEAN	244	229	222	240	235	213 *
WEEK	2	ST.DEV.	25.1	12.7	19.9	21.1	14.1	8.6
		N	6	6	6	6	6	6
DAY	12	MEAN	251	238	233	248	243	219 *
WEEK	2	ST.DEV.	25.8	12.3	20.2	23.0	12.8	8.2
		N	6	6	6	6	6	6
DAY	14	MEAN	257	237	231	248	241	220 **
WEEK	2	ST.DEV.	27.3	16.7	20.6	20.0	13.6	5.5
		N	6	6	6	6	6	6
DAY	19	MEAN	254	246	245	253	243	226
WEEK	3	ST.DEV.	27.5	13.2	26.6	29.1	12.9	11.3
		N	3	3	3	3	3	3
DAY	22	MEAN	258	251	248	258	246	224
WEEK	4	ST.DEV.	28.0	12.9	25.3	30.3	14.5	9.8
		N	3	3	3	3	3	3
DAY	25	MEAN	263	251	249	265	254	226
WEEK	4	ST.DEV.	28.6	10.8	25.4	31.0	17.3	10.7
		N	3	3	3	3	3	3
DAY	28	MEAN	268	251	248	262	254	229
WEEK	4	ST.DEV.	27.8	12.7	26.0	35.5	13.2	13.0
		N	3	3	3	3	3	3

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**BODY WEIGHT GAIN (%) SUMMARY
MALES**

TREATMENT			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	0	0	0	0	0	0
WEEK	1	ST. DEV.	0.0	0.0	0.0	0.0	0.0	0.0
		N	14	14	14	14	14	14
DAY	5	MEAN	12	12	12	13	11	13
WEEK	1	ST. DEV.	6.3	1.9	1.5	2.3	2.2	1.5
		N	14	14	14	14	14	14
DAY	8	MEAN	19	19	19	20	18	20
WEEK	2	ST. DEV.	7.4	3.3	3.7	3.5	4.6	4.2
		N	14	14	14	14	14	14
DAY	12	MEAN	31	30	31	33	30	33
WEEK	2	ST. DEV.	7.9	4.8	4.7	5.5	4.5	4.8
		N	14	14	14	14	14	14
DAY	15	MEAN	35	36	35	37	32	37
WEEK	3	ST. DEV.	9.5	6.5	5.0	6.5	7.2	7.4
		N	14	14	14	14	14	14
DAY	19	MEAN	45	45	45	48	45	47
WEEK	3	ST. DEV.	10.1	7.6	5.8	9.0	6.7	8.9
		N	14	14	14	14	14	14
DAY	22	MEAN	50	49	51	52	48	51
WEEK	4	ST. DEV.	10.4	7.9	5.7	9.9	7.3	10.3
		N	14	14	14	14	14	14
DAY	25	MEAN	56	55	57	58	54	58
WEEK	4	ST. DEV.	11.2	8.8	6.5	11.4	8.5	10.8
		N	14	14	14	14	14	14
DAY	28	MEAN	61	60	62	65	58	62
WEEK	4	ST. DEV.	11.4	9.1	7.1	12.9	9.6	11.1
		N	14	14	14	14	14	14

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**BODY WEIGHT GAIN (%) SUMMARY
MALES**

RECOVERY			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	51	45	51	57	45	49
WEEK	1	ST.DEV.	7.9	5.8	3.8	10.6	12.6	14.5
		N	6	6	6	6	6	6
DAY	5	MEAN	68	61	69	78	63	68
WEEK	1	ST.DEV.	9.7	8.7	7.4	12.3	13.9	16.5
		N	6	6	6	6	6	6
DAY	8	MEAN	72	65	72	83	69	71
WEEK	2	ST.DEV.	9.8	8.6	6.8	12.8	14.4	16.5
		N	6	6	6	6	6	6
DAY	12	MEAN	78	71	79	91	72	78
WEEK	2	ST.DEV.	9.1	8.2	7.3	14.1	15.6	16.6
		N	6	6	6	6	6	6
DAY	14	MEAN	80	71	80	90	72	79
WEEK	2	ST.DEV.	9.0	8.9	7.0	15.8	15.2	17.2
		N	6	6	6	6	6	6
DAY	19	MEAN	92	77	88	93	77	70 *
WEEK	3	ST.DEV.	6.4	13.0	7.1	5.8	7.1	5.6
		N	3	3	3	3	3	3
DAY	22	MEAN	97	80	93	97	79 *	74 *
WEEK	4	ST.DEV.	5.7	12.0	6.3	6.8	7.2	4.9
		N	3	3	3	3	3	3
DAY	25	MEAN	103	84	97	102	87	80 *
WEEK	4	ST.DEV.	6.2	14.2	6.9	7.3	9.9	2.7
		N	3	3	3	3	3	3
DAY	28	MEAN	105	84 *	99	101	84 *	80 *
WEEK	4	ST.DEV.	6.5	13.5	6.1	7.6	8.1	4.5
		N	3	3	3	3	3	3

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**BODY WEIGHT GAIN (%) SUMMARY
FEMALES**

TREATMENT			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	0	0	0	0	0	0
WEEK	1	ST.DEV.	0.0	0.0	0.0	0.0	0.0	0.0
		N	14	14	14	14	14	14
DAY	5	MEAN	4	5	4	4	3	3
WEEK	1	ST.DEV.	2.7	2.5	2.3	2.3	3.2	3.4
		N	14	14	14	14	14	14
DAY	8	MEAN	8	8	8	7	7	6
WEEK	2	ST.DEV.	3.2	3.9	2.6	3.2	2.9	2.7
		N	14	14	14	14	14	14
DAY	12	MEAN	16	15	15	17	14	13
WEEK	2	ST.DEV.	4.3	4.2	2.9	3.5	3.4	4.0
		N	14	14	14	14	14	14
DAY	15	MEAN	18	18	16	19	16	13 *
WEEK	3	ST.DEV.	5.5	5.8	4.3	4.2	3.7	4.6
		N	14	14	14	14	14	14
DAY	19	MEAN	26	26	23	26	23	19 *
WEEK	3	ST.DEV.	5.6	5.8	5.3	4.2	3.9	6.4
		N	14	14	14	14	14	14
DAY	22	MEAN	27	28	25	28	26	21 *
WEEK	4	ST.DEV.	4.5	5.5	6.2	4.6	4.5	6.9
		N	14	14	14	14	14	14
DAY	25	MEAN	33	34	31	35	31	24 **
WEEK	4	ST.DEV.	6.7	5.8	5.6	3.9	4.3	7.3
		N	14	14	14	14	14	14
DAY	28	MEAN	36	36	32	36	33	25 **
WEEK	4	ST.DEV.	6.7	7.0	4.8	4.5	4.9	7.5
		N	14	14	14	14	14	14

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**BODY WEIGHT GAIN (%) SUMMARY
FEMALES**

RECOVERY			GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAY	1	MEAN	23	21	18	25	22	15
WEEK	1	ST. DEV.	5.7	3.7	7.7	4.4	5.0	6.1
		N	6	6	6	6	6	6
DAY	5	MEAN	37	37	35	39	37	29
WEEK	1	ST. DEV.	6.4	4.6	9.5	3.7	6.1	7.7
		N	6	6	6	6	6	6
DAY	8	MEAN	41	39	36	41	39	33
WEEK	2	ST. DEV.	7.0	5.4	9.9	5.7	6.2	7.3
		N	6	6	6	6	6	6
DAY	12	MEAN	44	44	43	46	44	37
WEEK	2	ST. DEV.	7.2	4.8	9.8	6.1	7.2	7.2
		N	6	6	6	6	6	6
DAY	14	MEAN	48	43	42	46	43	37
WEEK	2	ST. DEV.	8.8	7.8	9.8	4.6	8.5	5.9
		N	6	6	6	6	6	6
DAY	19	MEAN	47	50	48	45	45	41
WEEK	3	ST. DEV.	12.5	7.0	4.8	5.1	8.6	10.3
		N	3	3	3	3	3	3
DAY	22	MEAN	50	53	50	48	47	39
WEEK	4	ST. DEV.	12.1	6.7	6.2	3.7	9.5	9.5
		N	3	3	3	3	3	3
DAY	25	MEAN	53	53	50	52	52	40
WEEK	4	ST. DEV.	12.7	5.4	3.8	2.8	7.6	10.0
		N	3	3	3	3	3	3
DAY	28	MEAN	56	53	50	50	52	42
WEEK	4	ST. DEV.	13.8	6.2	3.0	5.6	8.8	11.5
		N	3	3	3	3	3	3

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**FOOD CONSUMPTION (G/ANIMAL/DAY) SUMMARY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	26	26	27	26	26	27
WEEKS 1/2	ST.DEV.	2.1	1.9	1.0	1.0	2.4	0.9
	N (CAGE)	4	4	4	4	4	4
DAYS 8-15	MEAN	28	28	28	29	27	29
WEEKS 2/3	ST.DEV.	2.7	2.4	0.9	0.6	2.1	1.6
	N (CAGE)	4	4	4	4	4	4
DAYS 15-22	MEAN	30	29	30	30	29	30
WEEKS 3/4	ST.DEV.	3.3	1.3	1.5	2.3	1.2	2.7
	N (CAGE)	4	4	4	4	4	4
DAYS 22-28	MEAN	30	30	31	31	30	31
WEEK 4	ST.DEV.	2.3	1.5	1.1	2.4	1.6	3.0
	N (CAGE)	4	4	4	4	4	4
MEAN OF MEANS OVER TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		28	28	29	29	28	29

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**FOOD CONSUMPTION (G/ANIMAL/DAY) SUMMARY
MALES**

RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	30	28	30	32	30	30
WEEKS 1/2	ST.DEV.	2.5	2.0	1.8	1.4	0.8	3.7
	N (CAGE)	2	2	2	2	2	2
DAYS 8-14	MEAN	30	28	31	31	29	30
WEEK 2	ST.DEV.	1.8	1.8	1.4	2.0	1.2	4.0
	N (CAGE)	2	2	2	2	2	2
DAYS 14-19	MEAN	30	28	30	30	26	27
WEEKS 2/3	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 19-22	MEAN	31	29	32	31	27	28
WEEKS 3/4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 22-28	MEAN	31	28	30	29	27	27
WEEK 4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
MEAN OF MEANS OVER RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		30	28	30	30	28	28

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**FOOD CONSUMPTION (G/ANIMAL/DAY) SUMMARY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	19	18	19	19	20	19
WEEKS 1/2	ST.DEV.	0.7	1.2	1.2	0.6	1.6	1.9
	N (CAGE)	4	4	4	4	4	4
DAYS 8-15	MEAN	21	20	20	21	21	19
WEEKS 2/3	ST.DEV.	0.5	0.5	1.1	0.8	1.4	0.8
	N (CAGE)	4	4	4	4	4	4
DAYS 15-22	MEAN	22	22	22	22	22	20 *
WEEKS 3/4	ST.DEV.	1.3	0.8	1.2	1.1	1.3	1.0
	N (CAGE)	4	4	4	4	4	4
DAYS 22-28	MEAN	24	23	23	23	23	20 **
WEEK 4	ST.DEV.	1.2	0.7	1.3	0.5	0.7	0.5
	N (CAGE)	4	4	4	4	4	4
MEAN OF MEANS OVER TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		22	21	21	21	22	19

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**FOOD CONSUMPTION (G/ANIMAL/DAY) SUMMARY
FEMALES**

RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	25	24	24	24	24	21 **
WEEKS 1/2	ST.DEV.	0.4	1.0	1.2	1.1	0.6	0.2
	N (CAGE)	2	2	2	2	2	2
DAYS 8-14	MEAN	24	23	23	23	24	20 *
WEEK 2	ST.DEV.	0.2	1.1	0.8	1.2	0.6	0.3
	N (CAGE)	2	2	2	2	2	2
DAYS 14-19	MEAN	22	22	22	20	20	19
WEEKS 2/3	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 19-22	MEAN	24	23	22	21	22	19
WEEKS 3/4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 22-28	MEAN	24	22	22	22	21	19
WEEK 4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
MEAN OF MEANS OVER RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		24	23	22	22	22	20

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**RELATIVE FOOD CONSUMPTION SUMMARY
(G/KG BODY WEIGHT/DAY)
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	114	112	115	111	112	115
WEEKS 1/2	ST.DEV.	8.7	3.6	3.8	2.9	7.1	3.7
	N (CAGE)	4	4	4	4	4	4
DAYS 8-15	MEAN	103	102	103	102	101	104
WEEKS 2/3	ST.DEV.	9.3	3.3	2.0	2.3	2.6	1.9
	N (CAGE)	4	4	4	4	4	4
DAYS 15-22	MEAN	99	96	99	96	98	98
WEEKS 3/4	ST.DEV.	11.1	4.5	5.2	5.9	5.5	6.8
	N (CAGE)	4	4	4	4	4	4
DAYS 22-28	MEAN	93	91	94	92	93	94
WEEK 4	ST.DEV.	6.8	1.1	3.4	5.3	3.6	6.1
	N (CAGE)	4	4	4	4	4	4
MEAN OF MEANS OVER TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		102	100	103	100	101	103

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**RELATIVE FOOD CONSUMPTION SUMMARY
(G/KG BODY WEIGHT/DAY)
MALES**

RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	90	85	87	85	91	86
WEEKS 1/2	ST.DEV.	1.5	0.9	4.9	4.1	0.3	2.1
	N (CAGE)	2	2	2	2	2	2
DAYS 8-14	MEAN	84	80	82	78	83	81
WEEK 2	ST.DEV.	0.1	0.7	2.6	5.8	0.1	0.2
	N (CAGE)	2	2	2	2	2	2
DAYS 14-19	MEAN	77	74	76	71	76	76
WEEKS 2/3	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 19-22	MEAN	78	76	80	72	77	78
WEEKS 3/4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 22-28	MEAN	75	72	74	67	73	72
WEEK 4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
MEAN OF MEANS OVER RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
	MEAN	81	77	80	74	80	79

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**RELATIVE FOOD CONSUMPTION SUMMARY
(G/KG BODY WEIGHT/DAY)
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	106	104	110	108	113	111
WEEKS 1/2	ST.DEV.	1.2	6.1	5.0	5.4	11.8	11.4
	N (CAGE)	4	4	4	4	4	4
DAYS 8-15	MEAN	104	105	107	107	109	103
WEEKS 2/3	ST.DEV.	2.4	2.8	4.7	4.7	8.0	6.4
	N (CAGE)	4	4	4	4	4	4
DAYS 15-22	MEAN	103	105	108	105	107	100
WEEKS 3/4	ST.DEV.	6.8	6.7	5.7	6.2	4.9	7.9
	N (CAGE)	4	4	4	4	4	4
DAYS 22-28	MEAN	102	102	105	101	104	95
WEEK 4	ST.DEV.	6.1	4.6	2.8	3.4	1.9	4.6
	N (CAGE)	4	4	4	4	4	4
MEAN OF MEANS OVER TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		104	104	107	105	108	102

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

RELATIVE FOOD CONSUMPTION SUMMARY
(G/KG BODY WEIGHT/DAY)
FEMALES

RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
DAYS 1-8	MEAN	105	104	107	102	106	100
WEEKS 1/2	ST.DEV.	3.5	2.7	2.4	5.3	1.2	4.0
	N (CAGE)	2	2	2	2	2	2
DAYS 8-14	MEAN	95	95	97	94	97	93
WEEK 2	ST.DEV.	0.2	3.7	1.0	4.0	0.2	3.9
	N (CAGE)	2	2	2	2	2	2
DAYS 14-19	MEAN	86	88	88	81	84	85
WEEKS 2/3	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 19-22	MEAN	92	92	87	83	88	86
WEEKS 3/4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
DAYS 22-28	MEAN	91	86	90	81	84	85
WEEK 4	ST.DEV.	---	---	---	---	---	---
	N (CAGE)	1	1	1	1	1	1
MEAN OF MEANS OVER RECOVERY		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
MEAN		94	93	94	88	92	90

* / ** : Dunnett-Test based on pooled variance significant at 5% (*) or 1% (**) level

**HAEMATOLOGY SUMMARY
AFTER 4 WEEKS
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
RBC	MEAN	7.05	6.72	6.61 *	6.79	6.57 **	6.66
T/1	ST.DEV.	0.24	0.32	0.27	0.32	0.52	0.39
	N	10	14	14	13	14	12
HB	MEAN	9.1	8.8	8.7	8.8	8.5 **	8.9
mmol/l	ST.DEV.	0.4	0.4	0.4	0.5	0.6	0.4
	N	10	14	14	13	14	12
HCT	MEAN	0.407	0.395	0.388	0.397	0.383 *	0.392
l/l	ST.DEV.	0.011	0.016	0.014	0.021	0.026	0.019
	N	10	14	14	13	14	12
MCV	MEAN	57.8	58.8	58.7	58.5	58.4	59.0
f1	ST.DEV.	1.1	1.4	1.0	1.2	1.8	1.9
	N	10	14	14	13	14	12
MCH	MEAN	1.294	1.313	1.317	1.297	1.297	1.338 *
fmo1	ST.DEV.	0.036	0.030	0.027	0.045	0.035	0.047
	N	10	14	14	13	14	12
MCHC	MEAN	22.4	22.3	22.4	22.2	22.2	22.7
mmol/l	ST.DEV.	0.4	0.4	0.5	0.4	0.4	0.4
	N	10	14	14	13	14	12
RDW	MEAN	12.4	12.0	12.2	12.0	12.0	12.0
%	ST.DEV.	0.4	0.7	0.6	0.3	0.7	0.8
	N	10	14	14	13	14	12
PLATELETS	MEAN	1182	1025	1115	1050	870 **	1092
G/1	ST.DEV.	110	116	158	158	306	75
	N	10	14	14	13	14	12
WBC	MEAN	11.3	10.0	10.2	11.7	9.7	10.7
G/1	ST.DEV.	3.5	2.0	2.1	2.4	3.0	2.2
	N	10	14	14	13	14	12
SEG.	MEAN	0.124	0.125	0.117	0.087 +	0.148	0.114
1	ST.DEV.	0.033	0.041	0.035	0.025	0.049	0.039
	N	10	14	14	13	14	12
EO.	MEAN	0.007	0.011	0.007	0.007	0.008	0.005
1	ST.DEV.	0.005	0.011	0.005	0.004	0.007	0.005
	N	10	14	14	13	14	12
BASO.	MEAN	0.000	0.000	0.000	0.000	0.000	0.000
1	ST.DEV.	0.000	0.000	0.000	0.000	0.000	0.000
	N	10	14	14	13	14	12
MONO.	MEAN	0.026	0.022	0.020	0.023	0.026	0.023
1	ST.DEV.	0.006	0.012	0.010	0.009	0.013	0.009
	N	10	14	14	13	14	12
LYMPH.	MEAN	0.844	0.841	0.857	0.883 +	0.818	0.858
1	ST.DEV.	0.030	0.048	0.040	0.031	0.053	0.041
	N	10	14	14	13	14	12

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
AFTER 4 WEEKS
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
PT SEC	MEAN	14.9	15.0	14.9	14.4	14.1 **	14.7
	ST.DEV.	0.6	0.6	0.6	0.6	0.4	0.6
	N	13	14	13	12	9	13
PTT SEC	MEAN	16.1	16.0	17.1	18.2 *	16.8	17.2
	ST.DEV.	0.8	0.7	2.2	3.2	0.8	1.8
	N	13	14	13	11	9	13

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

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HAEMATOLOGY SUMMARY
AFTER 4 WEEKS
FEMALES

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
RBC	MEAN	6.72	6.27 **	6.61	6.62	6.35 *	6.41
T/1	ST.DEV.	0.14	0.39	0.34	0.36	0.28	0.37
	N	11	13	13	13	13	11
HB	MEAN	9.1	8.5 *	8.8	9.0	8.7	8.6
mmol/l	ST.DEV.	0.3	0.5	0.5	0.4	0.4	0.5
	N	11	13	13	13	13	11
HCT	MEAN	0.378	0.355 **	0.370	0.377	0.358 *	0.359*
l/l	ST.DEV.	0.012	0.018	0.019	0.014	0.017	0.019
	N	11	13	13	13	13	11
MCV	MEAN	56.2	56.6	56.0	57.1	56.3	56.0
f1	ST.DEV.	1.9	1.4	1.7	1.9	2.6	1.9
	N	11	13	13	13	13	11
MCH	MEAN	1.350	1.356	1.329	1.363	1.356	1.348
fmo1	ST.DEV.	0.034	0.035	0.049	0.053	0.050	0.041
	N	11	13	13	13	13	11
MCHC	MEAN	24.0	24.0	23.7	23.9	24.3	24.1
mmol/l	ST.DEV.	0.5	0.6	0.6	0.5	0.5	0.2
	N	11	13	13	13	13	11
RDW	MEAN	11.3	11.2	11.4	11.3	11.3	11.2
%	ST.DEV.	0.4	0.5	0.6	0.3	0.6	0.5
	N	11	13	13	13	13	11
PLATELETS	MEAN	1166	1141	1149	1169	1035	1134
G/l	ST.DEV.	127	149	125	74	236	131
	N	11	13	13	13	13	11
WBC	MEAN	7.4	7.5	6.8	7.6	6.3	8.4
G/l	ST.DEV.	2.1	1.6	2.3	1.8	1.9	2.4
	N	11	13	13	13	13	11
SEG.	MEAN	0.082	0.103	0.109	0.087	0.080	0.077
1	ST.DEV.	0.027	0.041	0.039	0.024	0.035	0.020
	N	11	13	13	13	13	11
EO.	MEAN	0.010	0.004	0.009	0.011	0.009	0.005
1	ST.DEV.	0.007	0.005	0.009	0.006	0.006	0.004
	N	11	13	13	13	13	11
BASO.	MEAN	0.000	0.000	0.000	0.000	0.000	0.000
1	ST.DEV.	0.000	0.000	0.000	0.000	0.000	0.000
	N	11	13	13	13	13	11
MONO.	MEAN	0.025	0.020	0.017	0.024	0.024	0.020
1	ST.DEV.	0.011	0.011	0.009	0.008	0.012	0.007
	N	11	13	13	13	13	11
LYMPH.	MEAN	0.883	0.873	0.865	0.877	0.887	0.898
1	ST.DEV.	0.034	0.044	0.040	0.030	0.039	0.026
	N	11	13	13	13	13	11

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
AFTER 4 WEEKS
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
PT SEC	MEAN	15.4	15.0	15.0	14.5 *	14.5 *	14.4 **
	ST.DEV.	1.0	0.6	0.8	0.5	0.7	0.4
	N	14	14	13	13	12	14
PTT SEC	MEAN	15.9	15.0	15.7	17.0	16.8	16.5
	ST.DEV.	1.4	0.9	0.8	0.9	2.0	2.2
	N	14	14	12	13	11	14

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

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**HAEMATOLOGY SUMMARY
AFTER 2 WEEKS RECOVERY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
RBC	MEAN	7.23	7.04	6.97	7.00	6.97	7.01
T/1	ST.DEV.	0.18	0.25	0.27	0.27	0.21	0.22
	N	3	3	3	3	3	3
HB	MEAN	9.1	8.9	8.7	8.8	8.6	8.9
mmo1/1	ST.DEV.	0.4	0.1	0.5	0.1	0.1	0.0
	N	3	3	3	3	3	3
HCT	MEAN	0.417	0.404	0.401	0.402	0.392	0.408
1/1	ST.DEV.	0.011	0.008	0.018	0.014	0.004	0.006
	N	3	3	3	3	3	3
MCV	MEAN	57.7	57.3	57.5	57.4	56.3	58.2
f1	ST.DEV.	0.1	1.0	0.6	0.3	1.6	1.0
	N	3	3	3	3	3	3
MCH	MEAN	1.259	1.260	1.253	1.259	1.230	1.270
fmo1	ST.DEV.	0.036	0.037	0.028	0.034	0.020	0.041
	N	3	3	3	3	3	3
MCHC	MEAN	21.8	22.0	21.8	21.9	21.8	21.8
mmo1/1	ST.DEV.	0.6	0.3	0.3	0.5	0.3	0.3
	N	3	3	3	3	3	3
RDW	MEAN	14.1	13.7	13.4	13.3	14.4	13.1
%	ST.DEV.	0.5	0.6	0.8	1.3	0.5	0.8
	N	3	3	3	3	3	3
PLATELETS	MEAN	1177	1081	1186	1080	1053	1078
G/1	ST.DEV.	106	102	170	49	22	58
	N	3	3	3	3	3	3
WBC	MEAN	8.5	12.0	12.1	12.2	8.5	11.6
G/1	ST.DEV.	1.8	3.2	1.9	1.8	2.4	1.9
	N	3	3	3	3	3	3
SEG.	MEAN	0.112	0.127	0.088	0.058	0.133	0.137
1	ST.DEV.	0.043	0.073	0.048	0.019	0.063	0.016
	N	3	3	3	3	3	3
EO.	MEAN	0.013	0.005	0.005	0.003	0.012	0.002
1	ST.DEV.	0.003	0.005	0.005	0.003	0.003	0.003
	N	3	3	3	3	3	3
BASO.	MEAN	0.000	0.000	0.000	0.000	0.000	0.000
1	ST.DEV.	0.000	0.000	0.000	0.000	0.000	0.000
	N	3	3	3	3	3	3
MONO.	MEAN	0.027	0.022	0.025	0.023	0.018	0.018
1	ST.DEV.	0.003	0.008	0.005	0.006	0.008	0.003
	N	3	3	3	3	3	3
LYMPH.	MEAN	0.848	0.847	0.882	0.915	0.837	0.843
1	ST.DEV.	0.043	0.077	0.055	0.022	0.073	0.020
	N	3	3	3	3	3	3

/: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
AFTER 2 WEEKS RECOVERY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
PT SEC	MEAN	14.6	15.2	14.9	14.6	15.2	15.5
	ST.DEV.	0.4	0.5	0.7	0.6	0.4	0.5
	N	3	3	3	3	2	3
PTT SEC	MEAN	16.2	15.3	16.0	15.0	15.2	14.7
	ST.DEV.	1.1	0.7	1.0	1.3	0.2	1.6
	N	3	3	3	3	2	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
AFTER 2 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
RBC	MEAN	7.02	6.47	6.62	6.71	6.61	6.53
T/1	ST.DEV.	0.09	0.19	0.23	0.51	0.35	0.33
	N	3	3	3	3	3	3
HB	MEAN	9.0	8.4	8.7	9.0	8.6	8.5
mmo1/1	ST.DEV.	0.2	0.2	0.3	0.4	0.5	0.4
	N	3	3	3	3	3	3
HCT	MEAN	0.404	0.378	0.389	0.396	0.383	0.387
1/1	ST.DEV.	0.009	0.005	0.012	0.012	0.030	0.016
	N	3	3	3	3	3	3
MCV	MEAN	57.5	58.4	58.9	59.2	57.9	59.3
f1	ST.DEV.	0.7	1.7	2.8	2.7	2.1	0.6
	N	3	3	3	3	3	3
MCH	MEAN	1.277	1.305	1.310	1.339	1.301	1.307
fmo1	ST.DEV.	0.021	0.060	0.055	0.048	0.041	0.012
	N	3	3	3	3	3	3
MCHC	MEAN	22.2	22.4	22.3	22.6	22.5	22.1
mmo1/1	ST.DEV.	0.2	0.4	0.2	0.4	0.5	0.2
	N	3	3	3	3	3	3
RDW	MEAN	14.5	15.2	15.4	15.3	14.6	15.7
%	ST.DEV.	1.5	1.1	1.3	1.7	1.1	0.1
	N	3	3	3	3	3	3
PLATELETS	MEAN	1232	1117	1066	1111	854	1034
G/1	ST.DEV.	165	144	133	56	145	233
	N	3	3	3	3	3	3
WBC	MEAN	7.3	8.7	7.3	6.7	6.6	6.8
G/1	ST.DEV.	1.8	2.8	3.3	1.3	1.0	2.5
	N	3	3	3	3	3	3
SEG.	MEAN	0.075	0.077	0.065	0.080	0.050	0.100
1	ST.DEV.	0.035	0.020	0.018	0.033	0.030	0.015
	N	3	3	3	3	3	3
EO.	MEAN	0.005	0.007	0.003	0.010	0.008	0.002
1	ST.DEV.	0.005	0.008	0.003	0.005	0.010	0.003
	N	3	3	3	3	3	3
BASO.	MEAN	0.000	0.000	0.000	0.000	0.000	0.000
1	ST.DEV.	0.000	0.000	0.000	0.000	0.000	0.000
	N	3	3	3	3	3	3
MONO.	MEAN	0.017	0.025	0.017	0.033	0.010	0.027
1	ST.DEV.	0.008	0.010	0.013	0.013	0.009	0.008
	N	3	3	3	3	3	3
LYMPH.	MEAN	0.903	0.892	0.915	0.877	0.932	0.872
1	ST.DEV.	0.038	0.023	0.022	0.023	0.032	0.010
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
 AFTER 2 WEEKS RECOVERY
 FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELLOMER ALCOHOL	GROUP 3 TELLOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
PT	MEAN	16.0	14.9 *	15.6	14.8 *	14.8 *	15.5
SEC	ST.DEV.	0.4	0.4	0.6	0.3	0.1	0.1
	N	3	3	3	3	2	2
PTT	MEAN	15.5	14.4	15.1	14.8	15.7	13.7
SEC	ST.DEV.	2.0	0.3	1.1	0.9	1.3	0.0
	N	3	3	3	3	2	2

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
AFTER 4 WEEKS RECOVERY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
RBC T/1	MEAN	7.35	7.01	6.85	7.01	6.89	6.99
	ST.DEV.	0.50	0.14	0.16	0.17	0.08	0.31
	N	3	3	3	3	3	3
HB mmol/l	MEAN	9.1	9.1	9.1	9.2	9.0	9.0
	ST.DEV.	0.6	0.2	0.3	0.3	0.4	0.2
	N	3	3	3	3	3	3
HCT l/l	MEAN	0.396	0.391	0.384	0.392	0.390	0.389
	ST.DEV.	0.026	0.005	0.012	0.015	0.014	0.015
	N	3	3	3	3	3	3
MCV fl	MEAN	53.9	55.8	56.1	55.8	56.7	55.7
	ST.DEV.	1.6	0.8	1.6	0.8	1.4	1.8
	N	3	3	3	3	3	3
MCH fmol	MEAN	1.243	1.294	1.323	1.317	1.307	1.284
	ST.DEV.	0.052	0.037	0.020	0.031	0.042	0.041
	N	3	3	3	3	3	3
MCHC mmol/l	MEAN	23.1	23.2	23.6	23.6	23.1	23.1
	ST.DEV.	0.3	0.3	0.4	0.6	0.2	0.3
	N	3	3	3	3	3	3
RDW %	MEAN	14.5	12.9 *	13.7	12.9 *	13.6	13.7
	ST.DEV.	0.4	0.5	0.3	0.4	0.3	0.9
	N	3	3	3	3	3	3
PLATELETS G/l	MEAN	1082	1025	1076	1179	966	1077
	ST.DEV.	113	95	149	70	71	27
	N	3	3	3	3	3	3
WBC G/l	MEAN	12.2	12.3	10.8	9.4	7.7	11.2
	ST.DEV.	0.9	3.0	4.2	1.3	1.6	3.3
	N	3	3	3	3	3	3
SEG. 1	MEAN	0.103	0.095	0.090	0.060	0.063	0.078
	ST.DEV.	0.053	0.028	0.033	0.009	0.003	0.046
	N	3	3	3	3	3	3
EO. 1	MEAN	0.007	0.003	0.010	0.005	0.007	0.007
	ST.DEV.	0.006	0.006	0.005	0.005	0.003	0.003
	N	3	3	3	3	3	3
BASO. 1	MEAN	0.000	0.000	0.000	0.000	0.000	0.000
	ST.DEV.	0.000	0.000	0.000	0.000	0.000	0.000
	N	3	3	3	3	3	3
MONO. 1	MEAN	0.052	0.055	0.047	0.020	0.025	0.027
	ST.DEV.	0.025	0.018	0.033	0.009	0.009	0.020
	N	3	3	3	3	3	3
LYMPH. 1	MEAN	0.838	0.847	0.853	0.915	0.905	0.888
	ST.DEV.	0.056	0.050	0.068	0.005	0.013	0.059
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
 AFTER 4 WEEKS RECOVERY
 MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
PT SEC	MEAN	13.1	13.0	13.4	13.8	14.2	14.0
	ST.DEV.	0.6	0.4	0.2	1.1	0.5	0.2
	N	2	2	3	2	2	3
PTT SEC	MEAN	16.0	15.2	16.8	16.5	15.2	14.6
	ST.DEV.	0.1	0.8	0.2	0.8	0.4	2.0
	N	2	2	3	2	2	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
AFTER 4 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
RBC T/l	MEAN	6.87	6.86	6.79	6.99	6.80	6.56
	ST.DEV.	0.19	0.09	0.27	0.22	0.25	0.15
	N	3	3	3	3	3	3
HB mmo1/l	MEAN	9.3	9.4	9.0	9.1	8.9	8.7
	ST.DEV.	0.1	0.2	0.2	0.2	0.3	0.6
	N	3	3	3	3	3	3
HCT l/l	MEAN	0.397	0.402	0.389	0.393	0.389	0.379
	ST.DEV.	0.023	0.002	0.009	0.008	0.022	0.030
	N	3	3	3	3	3	3
MCV fl	MEAN	57.8	58.7	57.4	56.2	57.2	57.8
	ST.DEV.	1.8	1.1	2.3	0.9	3.4	3.3
	N	3	3	3	3	3	3
MCH fmo1	MEAN	1.349	1.366	1.322	1.297	1.314	1.321
	ST.DEV.	0.020	0.018	0.033	0.030	0.049	0.058
	N	3	3	3	3	3	3
MCHC mmo1/l	MEAN	23.4	23.3	23.1	23.1	23.0	22.9
	ST.DEV.	1.0	0.4	0.4	0.2	0.5	0.6
	N	3	3	3	3	3	3
RDW %	MEAN	12.8	13.5	13.3	12.6	13.3	12.9
	ST.DEV.	0.8	0.5	0.2	0.3	1.1	0.9
	N	3	3	3	3	3	3
PLATELETS G/l	MEAN	972	980	965	1014	978	994
	ST.DEV.	54	103	126	40	127	80
	N	3	3	3	3	3	3
WBC G/l	MEAN	6.0	8.8	7.7	6.2	6.8	8.7
	ST.DEV.	0.6	1.1	3.7	0.4	2.3	2.3
	N	3	3	3	3	3	3
SEG. 1	MEAN	0.053	0.070	0.038	0.077	0.075	0.062
	ST.DEV.	0.031	0.013	0.015	0.045	0.017	0.025
	N	3	3	3	3	3	3
EO. 1	MEAN	0.008	0.003	0.010	0.020	0.007	0.005
	ST.DEV.	0.010	0.003	0.000	0.000	0.003	0.009
	N	3	3	3	3	3	3
BASO. 1	MEAN	0.000	0.000	0.000	0.000	0.000	0.000
	ST.DEV.	0.000	0.000	0.000	0.000	0.000	0.000
	N	3	3	3	3	3	3
MONO. 1	MEAN	0.015	0.027	0.018	0.030	0.035	0.017
	ST.DEV.	0.005	0.008	0.014	0.000	0.018	0.008
	N	3	3	3	3	3	3
LYMPH. 1	MEAN	0.923	0.900	0.933	0.873	0.883	0.917
	ST.DEV.	0.032	0.005	0.010	0.045	0.030	0.033
	N	3	3	3	3	3	3

/: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**HAEMATOLOGY SUMMARY
 AFTER 4 WEEKS RECOVERY
 FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
HAEMATOLOGY PARAMETERS							
PT SEC	MEAN	12.3	12.2	11.9	12.2	11.7	12.2
	ST.DEV.	0.6	0.3	0.4	0.6	0.3	0.4
	N	3	3	3	3	3	3
PTT SEC	MEAN	15.7	14.6	15.7	15.0	15.3	14.9
	ST.DEV.	1.2	0.5	1.1	0.6	0.2	1.1
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
ALAT(GPT) ukat/l	MEAN	0.64	0.61	0.61	0.57	0.67	0.59
	ST.DEV.	0.12	0.10	0.14	0.11	0.25	0.06
	N	14	14	13	13	14	14
ASAT(GOT) ukat/l	MEAN	2.80	2.62	2.58	2.31 **	2.39 *	2.37 *
	ST.DEV.	0.38	0.41	0.46	0.30	0.26	0.45
	N	14	14	14	14	14	14
BILI T. umol/l	MEAN	2	2	2	2	2	2
	ST.DEV.	1	0	1	0	0	1
	N	14	14	14	14	14	14
CHOLEST.T. mmol/l	MEAN	2.00	1.28 **	1.43 **	1.76	0.97 **	1.13 *
	ST.DEV.	0.39	0.44	0.47	0.40	0.20	0.40
	N	14	14	14	14	14	14
TRIGL. mmol/l	MEAN	0.80	0.63	0.73	0.65	0.43 **	0.48 **
	ST.DEV.	0.25	0.29	0.39	0.21	0.15	0.17
	N	14	14	14	14	14	14
CREATININE umol/l	MEAN	33	30	31	34	35	32
	ST.DEV.	4	3	2	4	5	3
	N	14	14	14	14	14	14
GLUCOSE mmol/l	MEAN	6.32	6.48	6.24	6.59	6.72	6.38
	ST.DEV.	0.75	0.95	0.73	1.07	1.47	1.24
	N	14	14	14	14	14	14
UREA mmol/l	MEAN	6.9	7.0	6.7	6.9	7.7	7.6
	ST.DEV.	1.1	1.0	1.1	1.0	1.5	1.2
	N	14	14	14	14	14	14
PROTEIN T. g/l	MEAN	56.8	53.2 **	53.9 *	53.8 *	53.7 **	54.1 *
	ST.DEV.	2.9	2.1	2.9	2.2	2.8	2.0
	N	14	14	14	14	14	14
ALBUMIN g/l	MEAN	29.3	28.7	29.3	29.8	30.4	29.3
	ST.DEV.	0.9	1.3	1.7	1.3	1.4	1.2
	N	14	14	14	14	14	14
GLOBULIN g/l	MEAN	27.5	24.4 +	24.6 +	24.0 +	23.3 +	24.8 +
	ST.DEV.	2.5	1.8	2.0	1.5	2.4	2.1
	N	14	14	14	14	14	14
A/G RATIO	MEAN	1.1	1.2	1.2 +	1.2 +	1.3 +	1.2 +
	ST.DEV.	0.1	0.1	0.1	0.1	0.1	0.1
	N	14	14	14	14	14	14
ALP ukat/l	MEAN	7.76	8.08	7.70	8.00	9.33 *	7.26
	ST.DEV.	1.75	1.94	1.14	1.16	1.50	1.48
	N	14	14	14	14	14	14

/: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

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**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
INORG PHOSPH mmol/l	MEAN	2.83	2.75	2.88	2.71	3.02	2.96
	ST. DEV.	0.16	0.13	0.19	0.23	0.30	0.20
	N	14	14	14	14	14	14
SODIUM mmol/l	MEAN	142.6	142.9	143.2	143.0	143.3	142.9
	ST. DEV.	1.3	0.9	0.7	0.7	0.8	0.9
	N	14	14	14	14	14	14
POTASSIUM mmol/l	MEAN	4.85	4.60	4.72	4.50 *	4.55	4.66
	ST. DEV.	0.31	0.27	0.39	0.22	0.46	0.35
	N	14	14	14	14	14	14
CALCIUM mmol/l	MEAN	2.53	2.47	2.50	2.47	2.51	2.52
	ST. DEV.	0.08	0.06	0.06	0.07	0.08	0.08
	N	14	14	14	14	14	14
CHLORIDE mmol/l	MEAN	100	100	102	101	103 **	103 **
	ST. DEV.	2	2	1	2	2	3
	N	14	14	14	14	14	14

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS
FEMALES

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
ALAT(GPT) ukat/l	MEAN ST.DEV. N	0.52 0.12 14	0.47 0.09 14	0.55 0.14 14	0.52 0.12 14	0.57 0.09 14	0.63 0.32 14
ASAT(GOT) ukat/l	MEAN ST.DEV. N	2.62 0.34 14	2.37 0.53 14	2.24 0.36 14	2.30 0.35 14	2.45 0.69 14	2.32 0.38 14
BILI T. umol/l	MEAN ST.DEV. N	3 1 14	2 1 14	3 0 14	3 1 14	2 1 14	3 1 14
CHOLEST.T. mmol/l	MEAN ST.DEV. N	2.21 0.44 14	2.26 0.40 14	2.09 0.40 14	2.32 0.33 14	1.81 0.28 14	2.04 0.35 14
TRIGL. mmol/l	MEAN ST.DEV. N	0.60 0.18 14	0.57 0.18 14	0.58 0.14 14	0.56 0.13 14	0.51 0.16 14	0.54 0.16 14
CREATININE umol/l	MEAN ST.DEV. N	40 3 14	38 4 14	39 4 14	41 4 14	40 3 14	41 4 14
GLUCOSE mmol/l	MEAN ST.DEV. N	6.05 0.52 14	5.90 0.58 14	6.14 0.70 14	6.00 0.50 14	6.02 0.72 14	5.98 1.02 14
UREA mmol/l	MEAN ST.DEV. N	8.3 1.8 14	8.4 1.5 14	8.8 1.7 14	9.0 1.7 14	8.5 0.9 14	10.2 1.9 14
PROTEIN T. g/l	MEAN ST.DEV. N	65.9 3.3 14	64.8 2.8 14	65.4 2.5 14	66.2 2.9 14	65.4 4.1 14	66.8 3.1 14
ALBUMIN g/l	MEAN ST.DEV. N	34.0 1.4 14	33.8 1.4 14	34.1 1.6 14	33.8 2.2 14	33.7 1.5 14	34.9 1.7 14
GLOBULIN g/l	MEAN ST.DEV. N	31.9 2.2 14	31.0 2.4 14	31.3 1.9 14	32.4 2.0 14	31.7 3.1 14	31.8 2.4 14
A/G RATIO	MEAN ST.DEV. N	1.1 0.1 14	1.1 0.1 14	1.1 0.1 14	1.0 0.1 14	1.1 0.1 14	1.1 0.1 14
ALP ukat/l	MEAN ST.DEV. N	4.46 0.62 14	4.04 0.95 14	4.52 1.18 14	4.30 0.87 14	4.06 1.10 14	4.30 1.14 14

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
INORG PHOSPH mmol/l	MEAN	2.58	2.53	2.47	2.42	2.43	2.59
	ST.DEV.	0.23	0.16	0.20	0.19	0.21	0.23
	N	14	14	14	14	14	14
SODIUM mmol/l	MEAN	142.2	142.6	142.6	142.0	141.8	142.5
	ST.DEV.	1.6	0.8	1.1	1.0	0.7	1.1
	N	14	14	14	14	14	14
POTASSIUM mmol/l	MEAN	4.13	4.14	4.11	4.19	4.08	4.06
	ST.DEV.	0.39	0.34	0.32	0.24	0.28	0.30
	N	14	14	14	14	14	14
CALCIUM mmol/l	MEAN	2.56	2.60	2.60	2.60	2.56	2.60
	ST.DEV.	0.09	0.06	0.05	0.05	0.06	0.07
	N	14	14	14	14	14	14
CHLORIDE mmol/l	MEAN	97	99	98	99	102 **	101 **
	ST.DEV.	3	2	2	2	2	2
	N	14	14	14	14	14	4

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

CLINICAL BIOCHEMISTRY SUMMARY
AFTER 2 WEEKS RECOVERY
MALES

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
ALAT(GPT) ukat/1	MEAN ST.DEV. N	0.86 0.19 3	0.62 0.08 3	0.65 0.12 3	0.85 0.18 3	0.81 0.13 3	0.64 0.17 3
ASAT(GOT) ukat/1	MEAN ST.DEV. N	2.80 0.55 3	2.70 0.40 3	2.91 0.03 3	2.86 0.59 3	2.43 0.42 3	1.92 0.48 3
BILI T. umol/1	MEAN ST.DEV. N	3 0 3	3 1 3	3 1 3	3 1 3	2 0 3	3 1 3
CHOLEST.T. mmol/1	MEAN ST.DEV. N	1.95 0.50 3	1.67 0.69 3	1.57 0.04 3	1.93 0.43 3	1.38 0.22 3	1.27 0.19 3
TRIGL. mmol/1	MEAN ST.DEV. N	0.53 0.09 3	0.61 0.20 3	0.89 0.35 3	0.70 0.10 3	0.65 0.09 3	0.50 0.10 3
CREATININE umol/1	MEAN ST.DEV. N	35 8 3	34 2 3	33 2 3	39 2 3	39 4 3	39 9 3
GLUCOSE mmol/1	MEAN ST.DEV. N	5.65 0.39 3	6.23 1.66 3	6.85 0.93 3	8.33 0.11 3	7.14 0.16 3	6.22 1.02 3
UREA mmol/1	MEAN ST.DEV. N	6.8 1.3 3	7.3 0.5 3	6.9 0.7 3	6.8 0.5 3	6.7 0.8 3	7.4 0.7 3
PROTEIN T. g/l	MEAN ST.DEV. N	55.9 1.5 3	51.5 1.0 3	57.6 0.9 3	53.6 3.2 3	54.7 0.7 3	56.5 0.7 3
ALBUMIN g/l	MEAN ST.DEV. N	29.0 1.0 3	28.1 0.5 3	29.5 0.3 3	27.8 1.3 3	28.9 1.0 3	29.7 0.6 3
GLOBULIN g/l	MEAN ST.DEV. N	26.9 2.1 3	23.4 0.8 3	28.1 0.8 3	25.8 2.1 3	25.8 0.9 3	26.8 0.5 3
A/G RATIO	MEAN ST.DEV. N	1.1 0.1 3	1.2 0.0 3	1.0 0.0 3	1.1 0.1 3	1.1 0.1 3	1.1 0.0 3
ALP ukat/1	MEAN ST.DEV. N	6.59 2.07 3	6.93 1.02 3	5.82 1.22 3	5.94 1.02 3	6.72 0.80 3	5.61 1.21 3

/: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
 AFTER 2 WEEKS RECOVERY
 MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
INORG PHOSPH mmo1/1	MEAN	2.81	2.78	2.74	2.64	2.51	2.65
	ST.DEV.	0.06	0.16	0.23	0.11	0.14	0.12
	N	3	3	3	3	3	3
SODIUM mmo1/1	MEAN	144.3	143.4	142.0	141.1 *	142.4	142.8
	ST.DEV.	1.1	2.1	0.8	0.7	0.9	0.1
	N	3	3	3	3	3	3
POTASSIUM mmo1/1	MEAN	4.46	4.51	4.95	4.41	4.56	4.56
	ST.DEV.	0.42	0.23	0.13	0.20	0.15	0.24
	N	3	3	3	3	3	3
CALCIUM mmo1/1	MEAN	2.48	2.44	2.48	2.50	2.45	2.57
	ST.DEV.	0.04	0.06	0.03	0.11	0.04	0.07
	N	3	3	3	3	3	3
CHLORIDE mmo1/1	MEAN	103	102	100	100	102	103
	ST.DEV.	1	3	2	1	2	2
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 2 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
ALAT(GPT) ukat/l	MEAN	0.47	0.63	0.49	0.57	0.52	0.45
	ST.DEV.	0.05	0.34	0.11	0.08	0.12	0.07
	N	3	3	3	3	3	3
ASAT(GOT) ukat/l	MEAN	2.53	2.61	2.10	2.53	1.66	2.09
	ST.DEV.	0.58	0.69	0.36	0.34	0.15	0.17
	N	3	3	3	3	3	3
BILI T. umol/l	MEAN	3	2	2	3	3	2
	ST.DEV.	1	1	0	1	0	1
	N	3	3	3	3	3	3
CHOLEST.T. mmol/l	MEAN	2.16	1.92	1.74	2.41	2.11	2.02
	ST.DEV.	0.38	0.43	0.40	0.28	0.40	0.37
	N	3	3	3	3	3	3
TRIGL. mmol/l	MEAN	0.69	0.43	0.61	0.73	0.40	0.31
	ST.DEV.	0.24	0.03	0.24	0.26	0.09	0.08
	N	3	3	3	3	3	3
CREATININE umol/l	MEAN	39	40	41	45	44	42
	ST.DEV.	2	2	5	7	4	1
	N	3	3	3	3	3	3
GLUCOSE mmol/l	MEAN	7.34	6.52	7.31	7.41	7.55	7.69
	ST.DEV.	1.68	0.66	0.54	1.04	1.70	0.33
	N	3	3	3	3	3	3
UREA mmol/l	MEAN	6.8	7.3	8.2	9.8 *	7.6	8.0
	ST.DEV.	0.7	1.4	1.1	1.1	0.4	1.2
	N	3	3	3	3	3	3
PROTEIN T. g/l	MEAN	63.6	61.7	61.1	65.2	66.4	60.6
	ST.DEV.	2.8	3.8	1.6	3.1	4.2	5.2
	N	3	3	3	3	3	3
ALBUMIN g/l	MEAN	32.2	32.7	31.6	33.8	31.4	32.5
	ST.DEV.	2.7	2.8	1.9	1.7	1.0	1.2
	N	3	3	3	3	3	3
GLOBULIN g/l	MEAN	31.5	29.0	29.5	31.4	35.1	28.1
	ST.DEV.	1.2	2.8	2.3	1.8	3.3	4.0
	N	3	3	3	3	3	3
A/G RATIO	MEAN	1.0	1.1	1.1	1.1	0.9	1.2
	ST.DEV.	0.1	0.2	0.1	0.0	0.1	0.1
	N	3	3	3	3	3	3
ALP ukat/l	MEAN	3.30	3.60	4.36	3.85	3.27	4.32
	ST.DEV.	0.12	1.10	1.08	0.88	1.20	1.51
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 2 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
INORG PHOSPH mmol/l	MEAN	2.47	2.57	2.32	2.55	2.42	2.29
	ST.DEV.	0.09	0.36	0.06	0.27	0.26	0.10
	N	3	3	3	3	3	3
SODIUM mmol/l	MEAN	142.4	142.8	142.0	141.3	141.6	142.5
	ST.DEV.	1.0	1.3	1.0	1.5	0.8	0.8
	N	3	3	3	3	3	3
POTASSIUM mmol/l	MEAN	4.08	3.96	4.05	4.34	3.90	4.11
	ST.DEV.	0.09	0.20	0.42	0.38	0.23	0.15
	N	3	3	3	3	3	3
CALCIUM mmol/l	MEAN	2.63	2.59	2.57	2.68	2.68	2.63
	ST.DEV.	0.14	0.06	0.09	0.03	0.14	0.07
	N	3	3	3	3	3	3
CHLORIDE mmol/l	MEAN	99	99	99	98	98	100
	ST.DEV.	1	1	4	2	3	2
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS RECOVERY
MALES

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
ALAT(GPT) ukat/1	MEAN ST.DEV. N	0.59 0.17 3	0.68 0.07 3	0.60 0.03 3	0.58 0.17 3	0.75 0.17 3	0.64 0.12 3
ASAT(GOT) ukat/1	MEAN ST.DEV. N	2.65 0.25 3	2.44 0.25 3	2.06 0.24 3	2.39 0.50 3	2.40 0.20 3	1.87 * 0.13 3
BILI T. umo1/1	MEAN ST.DEV. N	3 1 3	2 1 3	3 1 3	3 1 3	2 1 3	2 * 0 3
CHOLEST.T. mmo1/1	MEAN ST.DEV. N	1.94 0.18 3	1.25 * 0.13 3	1.53 0.39 3	1.66 0.35 3	1.24 * 0.09 3	1.34 0.37 3
TRIGL. mmo1/1	MEAN ST.DEV. N	0.76 0.39 3	0.58 0.03 3	0.53 0.11 3	0.56 0.02 3	0.36 0.19 3	0.45 0.12 3
CREATININE umo1/1	MEAN ST.DEV. N	36 1 3	33 4 3	34 4 3	38 1 3	43 6 3	32 4 3
GLUCOSE mmo1/1	MEAN ST.DEV. N	8.01 0.40 3	7.45 1.37 3	7.06 1.05 3	6.12 0.55 3	5.57 * 0.70 3	6.70 0.62 3
UREA mmo1/1	MEAN ST.DEV. N	6.3 0.3 3	6.3 0.2 3	6.6 0.9 3	7.5 0.7 3	8.3 2.0 3	6.0 0.5 3
PROTEIN T. g/1	MEAN ST.DEV. N	62.2 0.1 3	55.9 * 1.8 3	55.4 * 3.5 3	57.0 * 2.3 3	57.3 1.2 3	54.5 ** 2.5 3
ALBUMIN g/1	MEAN ST.DEV. N	28.6 0.6 3	27.3 0.5 3	27.0 1.4 3	27.7 1.3 3	27.3 0.6 3	27.5 0.7 3
GLOBULIN g/1	MEAN ST.DEV. N	33.5 0.6 3	28.6 2.3 3	28.4 2.3 3	29.3 1.8 3	30.0 1.0 3	26.9 2.0 3
A/G RATIO	MEAN ST.DEV. N	0.9 0.0 3	1.0 0.1 3	1.0 0.0 3	0.9 0.1 3	0.9 0.0 3	1.0 0.1 3
ALP ukat/1	MEAN ST.DEV. N	4.33 0.65 3	6.20 1.91 3	5.28 1.46 3	5.43 1.31 3	6.00 1.94 3	4.73 0.19 3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS RECOVERY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
INORG PHOSPH mmol/l	MEAN	3.02	2.64	2.64	2.46 *	2.65	2.59
	ST.DEV.	0.13	0.28	0.24	0.18	0.18	0.20
	N	3	3	3	3	3	3
SODIUM mmol/l	MEAN	141.6	142.9	142.5	142.0	143.8	142.7
	ST.DEV.	0.9	1.3	1.2	0.6	1.0	0.2
	N	3	3	3	3	3	3
POTASSIUM mmol/l	MEAN	5.33	4.59 *	4.64 *	4.55 **	4.57 *	4.65 *
	ST.DEV.	0.21	0.14	0.33	0.12	0.42	0.11
	N	3	3	3	3	3	3
CALCIUM mmol/l	MEAN	2.58	2.48 *	2.48 *	2.46 *	2.49	2.48 *
	ST.DEV.	0.02	0.06	0.05	0.03	0.02	0.05
	N	3	3	3	3	3	3
CHLORIDE mmol/l	MEAN	102	103	104	104	103	107 *
	ST.DEV.	2	3	2	1	1	2
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
ALAT(GPT) ukat/l	MEAN	0.38	0.37	0.46	0.63	0.47	0.50
	ST.DEV.	0.09	0.04	0.12	0.31	0.16	0.02
	N	3	2	3	3	3	3
ASAT(GOT) ukat/l	MEAN	2.25	2.31	1.89	2.45	2.52	1.92
	ST.DEV.	0.31	0.33	0.45	0.26	0.49	0.05
	N	3	3	3	3	3	3
BILI T. umol/l	MEAN	2	2	3	2	2	2
	ST.DEV.	1	1	1	0	0	1
	N	3	3	3	3	3	3
CHOLEST.T. mmol/l	MEAN	2.50	2.41	2.30	2.51	2.06	2.13
	ST.DEV.	0.38	0.36	0.11	0.49	0.35	0.22
	N	3	3	3	3	3	3
TRIGL. mmol/l	MEAN	0.63	0.74	0.47	0.51	0.40	0.50
	ST.DEV.	0.13	0.27	0.04	0.18	0.06	0.21
	N	3	3	3	3	3	3
CREATININE umol/l	MEAN	41	42	42	44	39	39
	ST.DEV.	3	5	3	4	1	1
	N	3	3	3	3	3	3
GLUCOSE mmol/l	MEAN	7.16	6.43	6.90	6.34	6.86	7.65
	ST.DEV.	1.26	0.47	0.37	1.56	0.41	1.09
	N	3	3	3	3	3	3
UREA mmol/l	MEAN	7.5	7.5	8.0	8.3	7.0	10.7
	ST.DEV.	1.6	1.3	1.0	1.5	0.3	3.7
	N	3	3	3	3	3	3
PROTEIN T. g/l	MEAN	64.9	64.3	67.7	65.3	69.4	65.3
	ST.DEV.	4.1	2.5	2.2	3.4	0.9	5.4
	N	3	3	3	3	3	3
ALBUMIN g/l	MEAN	31.3	31.6	33.4	30.6	34.2	32.8
	ST.DEV.	1.7	1.2	3.4	1.3	0.7	2.0
	N	3	3	3	3	3	3
GLOBULIN g/l	MEAN	33.6	32.6	34.4	34.7	35.2	32.5
	ST.DEV.	2.5	1.9	1.5	2.1	1.4	3.3
	N	3	3	3	3	3	3
A/G RATIO	MEAN	0.9	1.0	1.0	0.9	1.0	1.0
	ST.DEV.	0.0	0.1	0.1	0.0	0.1	0.0
	N	3	3	3	3	3	3
ALP ukat/l	MEAN	2.95	3.03	3.11	2.93	2.70	3.38
	ST.DEV.	0.46	1.24	0.92	0.85	0.85	0.19
	N	3	3	3	3	3	3

/: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**CLINICAL BIOCHEMISTRY SUMMARY
AFTER 4 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
INORG PHOSPH mmol/l	MEAN	2.33	2.24	1.98	2.22	2.16	2.27
	ST.DEV.	0.17	0.12	0.20	0.30	0.08	0.26
	N	3	3	3	3	3	3
SODIUM mmol/l	MEAN	142.3	141.6	140.7	141.3	141.0	141.1
	ST.DEV.	1.8	0.5	1.7	0.7	1.4	1.6
	N	3	3	3	3	3	3
POTASSIUM mmol/l	MEAN	4.12	4.14	4.48	4.26	4.02	4.16
	ST.DEV.	0.34	0.29	0.89	0.51	0.33	0.18
	N	3	3	3	3	3	3
CALCIUM mmol/l	MEAN	2.52	2.53	2.55	2.57	2.60	2.64
	ST.DEV.	0.05	0.10	0.07	0.04	0.01	0.03
	N	3	3	3	3	3	3
CHLORIDE mmol/l	MEAN	100	101	100	99	102	103
	ST.DEV.	4	3	4	3	3	5
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level. +: Steel-test sig. at 5% level.

**ORGAN WEIGHTS (GRAM) SUMMARY
 AFTER 4 WEEKS
 MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELLOMER ALCOHOL	GROUP 3 TELLOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W.	MEAN	315	315	305	306	308	318
	ST.DEV.	30	16	13	27	28	25
	N	8	8	8	8	8	8
BRAIN	MEAN	2.01	1.96	1.95	2.00	1.96	2.00
	ST.DEV.	0.07	0.07	0.06	0.06	0.09	0.05
	N	8	8	8	8	8	8
HEART	MEAN	1.133	1.134	1.097	1.154	1.107	1.131
	ST.DEV.	0.108	0.144	0.115	0.106	0.088	0.103
	N	8	8	8	8	8	8
LIVER	MEAN	10.05	10.35	9.36	9.04	13.78 **	11.79 *
	ST.DEV.	1.24	0.68	0.60	1.08	1.83	1.00
	N	8	8	8	8	8	8
KIDNEYS	MEAN	2.30	2.34	2.20	2.16	2.34	2.19
	ST.DEV.	0.36	0.18	0.15	0.25	0.22	0.18
	N	8	8	8	8	8	8
ADRENALS	MEAN	0.045	0.053	0.052	0.046	0.050	0.046
	ST.DEV.	0.006	0.008	0.007	0.008	0.009	0.013
	N	8	8	8	8	8	8
SPLEEN	MEAN	0.580	0.566	0.567	0.578	0.570	0.558
	ST.DEV.	0.119	0.069	0.065	0.075	0.076	0.096
	N	8	8	8	8	8	8
TESTES	MEAN	2.87	3.05	2.78	2.86	2.80	2.85
	ST.DEV.	0.23	0.22	0.15	0.19	0.80	0.18
	N	8	8	8	8	8	8

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN/BODY WEIGHT RATIOS SUMMARY
 AFTER 4 WEEKS
 MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W. (GRAM)	MEAN	315	315	305	306	308	318
	ST. DEV.	30	16	13	27	28	25
	N	8	8	8	8	8	8
BRAIN (%)	MEAN	0.64	0.62	0.64	0.66	0.64	0.63
	ST. DEV.	0.05	0.03	0.03	0.05	0.05	0.05
	N	8	8	8	8	8	8
HEART (%)	MEAN	0.362	0.361	0.360	0.378	0.360	0.357
	ST. DEV.	0.037	0.046	0.037	0.026	0.023	0.041
	N	8	8	8	8	8	8
LIVER (%)	MEAN	3.19	3.30	3.07	2.95	4.47 **	3.71 **
	ST. DEV.	0.21	0.29	0.11	0.14	0.40	0.30
	N	8	8	8	8	8	8
KIDNEYS (%)	MEAN	0.73	0.74	0.72	0.70	0.76	0.69
	ST. DEV.	0.09	0.06	0.05	0.03	0.05	0.07
	N	8	8	8	8	8	8
ADRENALS (%)	MEAN	0.014	0.017	0.017	0.015	0.016	0.014
	ST. DEV.	0.002	0.003	0.002	0.003	0.003	0.003
	N	8	8	8	8	8	8
SPLEEN (%)	MEAN	0.183	0.180	0.186	0.189	0.185	0.175
	ST. DEV.	0.027	0.017	0.015	0.018	0.016	0.026
	N	8	8	8	8	8	8
TESTES (%)	MEAN	0.91	0.97	0.91	0.94	0.90	0.90
	ST. DEV.	0.05	0.09	0.06	0.12	0.24	0.05
	N	8	8	8	8	8	8

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN WEIGHTS (GRAM) SUMMARY
AFTER 4 WEEKS
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W.	MEAN	214	211	200	208	201	187 *
	ST.DEV.	22	16	16	15	13	16
	N	8	8	8	8	8	8
BRAIN	MEAN	1.88	1.93	1.85	1.90	1.88	1.88
	ST.DEV.	0.08	0.08	0.05	0.08	0.09	0.05
	N	8	8	7	8	8	8
HEART	MEAN	0.852	0.813	0.790	0.805	0.806	0.748 *
	ST.DEV.	0.054	0.054	0.071	0.073	0.083	0.073
	N	8	8	7	8	8	8
LIVER	MEAN	6.62	7.18	6.37	6.53	6.71	7.80 **
	ST.DEV.	0.50	0.55	0.47	0.72	0.70	0.88
	N	8	8	7	8	8	8
KIDNEYS	MEAN	1.50	1.63	1.51	1.53	1.51	1.46
	ST.DEV.	0.15	0.15	0.11	0.17	0.12	0.12
	N	8	8	7	8	8	8
ADRENALS	MEAN	0.060	0.064	0.060	0.070	0.058	0.054
	ST.DEV.	0.009	0.009	0.009	0.037	0.009	0.006
	N	8	8	7	8	8	8
SPLEEN	MEAN	0.423	0.450	0.417	0.608	0.407	0.412
	ST.DEV.	0.051	0.037	0.086	0.373	0.033	0.046
	N	8	8	7	8	8	8
OVARIES	MEAN	0.124	0.133	0.135	0.124	0.132	0.128
	ST.DEV.	0.023	0.020	0.015	0.030	0.018	0.019
	N	8	8	7	8	8	8

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN/BODY WEIGHT RATIOS SUMMARY
AFTER 4 WEEKS
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W. (GRAM)	MEAN	214	211	200	208	201	187 *
	ST.DEV.	22	16	16	15	13	16
	N	8	8	8	8	8	8
BRAIN (%)	MEAN	0.89	0.92	0.93	0.91	0.94	1.01 *
	ST.DEV.	0.08	0.05	0.06	0.04	0.05	0.07
	N	8	8	7	8	8	8
HEART (%)	MEAN	0.401	0.385	0.395	0.388	0.402	0.399
	ST.DEV.	0.035	0.027	0.023	0.030	0.034	0.028
	N	8	8	7	8	8	8
LIVER (%)	MEAN	3.11	3.40	3.19	3.14	3.35	4.15 *
	ST.DEV.	0.19	0.13	0.13	0.28	0.35	0.18
	N	8	8	7	8	8	8
KIDNEYS (%)	MEAN	0.70	0.77	0.76	0.74	0.75	0.78 *
	ST.DEV.	0.03	0.07	0.04	0.08	0.06	0.03
	N	8	8	7	8	8	8
ADRENALS (%)	MEAN	0.028	0.031	0.030	0.033	0.029	0.029
	ST.DEV.	0.006	0.005	0.002	0.016	0.005	0.003
	N	8	8	7	8	8	8
SPLEEN (%)	MEAN	0.198	0.214	0.208	0.298	0.204	0.220
	ST.DEV.	0.024	0.020	0.037	0.201	0.016	0.013
	N	8	8	7	8	8	8
OVARIES (%)	MEAN	0.058	0.063	0.068	0.060	0.066	0.069
	ST.DEV.	0.010	0.012	0.008	0.015	0.008	0.013
	N	8	8	7	8	8	8

/: Dunnett-test based on pooled variance sig. at 5% or 1% level.

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ORGAN WEIGHTS (GRAM) SUMMARY
 AFTER 2 WEEKS RECOVERY
 MALES

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W.	MEAN	320	314	344	366	324	380
	ST.DEV.	37	17	31	44	69	12
	N	3	3	3	3	3	3
BRAIN	MEAN	1.95	1.98	1.95	2.02	1.93	2.03
	ST.DEV.	0.12	0.07	0.13	0.11	0.18	0.03
	N	3	3	3	3	3	3
HEART	MEAN	1.091	1.062	1.172	1.153	1.149	1.299
	ST.DEV.	0.117	0.053	0.097	0.027	0.145	0.054
	N	3	3	3	3	3	3
LIVER	MEAN	8.24	8.27	9.89	10.30	9.55	14.07 **
	ST.DEV.	0.78	0.63	1.91	1.19	2.63	0.63
	N	3	3	3	3	3	3
KIDNEYS	MEAN	2.04	2.08	2.41	2.39	2.18	2.65
	ST.DEV.	0.31	0.03	0.31	0.25	0.51	0.06
	N	3	3	3	3	3	3
ADRENALS	MEAN	0.042	0.039	0.043	0.055	0.041	0.048
	ST.DEV.	0.007	0.008	0.006	0.012	0.005	0.007
	N	3	3	3	3	3	3
SPLEEN	MEAN	0.441	0.568	0.543	0.623	0.541	0.635 *
	ST.DEV.	0.084	0.012	0.037	0.102	0.080	0.121
	N	3	3	3	3	3	3
TESTES	MEAN	2.81	2.13	3.09	3.35	2.61	3.03
	ST.DEV.	0.24	0.89	0.16	0.17	1.09	0.26
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN/BODY WEIGHT RATIOS SUMMARY
AFTER 2 WEEKS RECOVERY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W. (GRAM)	MEAN	320	314	344	366	324	380
	ST.DEV.	37	17	31	44	69	12
	N	3	3	3	3	3	3
BRAIN (%)	MEAN	0.61	0.63	0.57	0.55	0.61	0.53
	ST.DEV.	0.04	0.04	0.06	0.04	0.09	0.02
	N	3	3	3	3	3	3
HEART (%)	MEAN	0.342	0.339	0.344	0.318	0.361	0.342
	ST.DEV.	0.007	0.029	0.055	0.042	0.045	0.009
	N	3	3	3	3	3	3
LIVER (%)	MEAN	2.58	2.63	2.86	2.82	2.93	3.70 **
	ST.DEV.	0.11	0.07	0.30	0.12	0.20	0.22
	N	3	3	3	3	3	3
KIDNEYS (%)	MEAN	0.64	0.66	0.70	0.65	0.67	0.70
	ST.DEV.	0.06	0.05	0.03	0.05	0.04	0.02
	N	3	3	3	3	3	3
ADRENALS (%)	MEAN	0.013	0.013	0.013	0.016	0.013	0.013
	ST.DEV.	0.002	0.003	0.001	0.005	0.001	0.002
	N	3	3	3	3	3	3
SPLEEN (%)	MEAN	0.138	0.181	0.159	0.170	0.169	0.167
	ST.DEV.	0.016	0.011	0.024	0.007	0.019	0.028
	N	3	3	3	3	3	3
TESTES (%)	MEAN	0.88	0.68	0.90	0.92	0.78	0.80
	ST.DEV.	0.04	0.30	0.09	0.06	0.22	0.04
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN WEIGHTS (GRAM) SUMMARY
 AFTER 2 WEEKS RECOVERY
 FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W.	MEAN	239	211	202	217	224	200
	ST.DEV.	29	17	14	28	11	3
	N	3	3	3	3	3	3
BRAIN	MEAN	1.96	1.89	1.91	1.91	1.92	1.99
	ST.DEV.	0.10	0.07	0.03	0.03	0.02	0.06
	N	3	3	3	3	3	3
HEART	MEAN	0.898	0.858	0.831	0.936	0.840	0.723 **
	ST.DEV.	0.053	0.052	0.056	0.052	0.054	0.018
	N	3	3	3	3	3	3
LIVER	MEAN	7.69	6.82	6.38	7.07	7.19	7.55
	ST.DEV.	1.33	0.86	0.91	0.09	0.67	0.56
	N	3	3	3	3	3	3
KIDNEYS	MEAN	1.54	1.51	1.52	1.60	1.51	1.38
	ST.DEV.	0.16	0.17	0.16	0.12	0.06	0.11
	N	3	3	3	3	3	3
ADRENALS	MEAN	0.055	0.063	0.065	0.069	0.058	0.056
	ST.DEV.	0.003	0.010	0.017	0.005	0.003	0.001
	N	3	3	3	3	3	3
SPLEEN	MEAN	0.420	0.424	0.416	0.414	0.449	0.392
	ST.DEV.	0.042	0.097	0.094	0.016	0.077	0.025
	N	3	3	3	3	3	3
OVARIES	MEAN	0.285	0.130	0.126	0.145	0.133	0.132
	ST.DEV.	0.250	0.005	0.010	0.020	0.015	0.006
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN/BODY WEIGHT RATIOS SUMMARY
 AFTER 2 WEEKS RECOVERY
 FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W. (GRAM)	MEAN	239	211	202	217	224	200
	ST. DEV.	29	17	14	28	11	3
	N	3	3	3	3	3	3
BRAIN (%)	MEAN	0.83	0.90	0.95	0.89	0.86	1.00
	ST. DEV.	0.08	0.04	0.07	0.10	0.04	0.03
	N	3	3	3	3	3	3
HEART (%)	MEAN	0.378	0.408	0.412	0.435	0.375	0.362
	ST. DEV.	0.024	0.042	0.013	0.042	0.008	0.007
	N	3	3	3	3	3	3
LIVER (%)	MEAN	3.21	3.22	3.15	3.30	3.21	3.78
	ST. DEV.	0.18	0.23	0.23	0.45	0.23	0.32
	N	3	3	3	3	3	3
KIDNEYS (%)	MEAN	0.65	0.72	0.75	0.74	0.68	0.69
	ST. DEV.	0.04	0.08	0.03	0.04	0.06	0.06
	N	3	3	3	3	3	3
ADRENALS (%)	MEAN	0.023	0.030	0.032	0.032	0.026	0.028
	ST. DEV.	0.002	0.006	0.006	0.005	0.001	0.001
	N	3	3	3	3	3	3
SPLEEN (%)	MEAN	0.177	0.199	0.205	0.192	0.202	0.197
	ST. DEV.	0.026	0.028	0.035	0.018	0.041	0.015
	N	3	3	3	3	3	3
OVARIES (%)	MEAN	0.113	0.062	0.063	0.067	0.059	0.066
	ST. DEV.	0.085	0.005	0.007	0.003	0.004	0.004
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

ORGAN WEIGHTS (GRAM) SUMMARY
AFTER 4 WEEKS RECOVERY
MALES

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W.	MEAN	389	363	378	401	335	344
	ST.DEV.	28	33	3	36	20	38
	N	3	3	3	3	3	3
BRAIN	MEAN	1.97	2.05	2.09	2.11	2.02	2.00
	ST.DEV.	0.15	0.04	0.03	0.19	0.08	0.07
	N	3	3	3	3	3	3
HEART	MEAN	1.196	1.207	1.217	1.299	1.048	1.231
	ST.DEV.	0.093	0.018	0.077	0.147	0.153	0.248
	N	3	3	3	3	3	3
LIVER	MEAN	10.77	9.78	10.30	10.06	8.84	11.17
	ST.DEV.	1.37	0.44	0.69	0.35	0.63	1.94
	N	3	3	3	3	3	3
KIDNEYS	MEAN	2.44	2.42	2.51	2.59	2.24	2.48
	ST.DEV.	0.23	0.06	0.04	0.24	0.41	0.21
	N	3	3	3	3	3	3
ADRENALS	MEAN	0.046	0.050	0.054	0.056	0.047	0.046
	ST.DEV.	0.011	0.009	0.004	0.013	0.003	0.009
	N	3	3	3	3	3	3
SPLEEN	MEAN	0.614	0.540	0.591	0.720	0.552	0.629
	ST.DEV.	0.040	0.082	0.061	0.037	0.065	0.136
	N	3	3	3	3	3	3
TESTES	MEAN	2.86	3.19	3.11	3.10	3.09	3.27
	ST.DEV.	0.14	0.43	0.06	0.22	0.11	0.30
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN/BODY WEIGHT RATIOS SUMMARY
AFTER 4 WEEKS RECOVERY
MALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W. (GRAM)	MEAN	389	363	378	401	335	344
	ST.DEV.	28	33	3	36	20	38
	N	3	3	3	3	3	3
BRAIN (%)	MEAN	0.51	0.57	0.55	0.53	0.60 *	0.59
	ST.DEV.	0.03	0.04	0.01	0.03	0.01	0.05
	N	3	3	3	3	3	3
HEART (%)	MEAN	0.308	0.335	0.322	0.324	0.313	0.356
	ST.DEV.	0.027	0.030	0.018	0.016	0.042	0.035
	N	3	3	3	3	3	3
LIVER (%)	MEAN	2.76	2.70	2.72	2.52	2.64	3.23 *
	ST.DEV.	0.17	0.13	0.18	0.21	0.03	0.22
	N	3	3	3	3	3	3
KIDNEYS (%)	MEAN	0.63	0.67	0.66	0.65	0.67	0.72
	ST.DEV.	0.05	0.04	0.01	0.08	0.14	0.02
	N	3	3	3	3	3	3
ADRENALS (%)	MEAN	0.012	0.014	0.014	0.014	0.014	0.014
	ST.DEV.	0.003	0.002	0.001	0.002	0.000	0.004
	N	3	3	3	3	3	3
SPLEEN (%)	MEAN	0.159	0.149	0.156	0.181	0.164	0.182
	ST.DEV.	0.017	0.019	0.016	0.026	0.010	0.022
	N	3	3	3	3	3	3
TESTES (%)	MEAN	0.74	0.88	0.82	0.78	0.92 *	0.95 *
	ST.DEV.	0.04	0.14	0.02	0.05	0.02	0.08
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN WEIGHTS (GRAM) SUMMARY
 AFTER 4 WEEKS RECOVERY
 FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W.	MEAN	243	228	226	235	226	208
	ST.DEV.	27	11	25	35	13	11
	N	3	3	3	3	3	3
BRAIN	MEAN	1.91	1.97	1.88	1.96	1.88	1.88
	ST.DEV.	0.09	0.06	0.06	0.05	0.08	0.09
	N	3	3	3	3	3	3
HEART	MEAN	0.916	0.851	0.870	0.918	0.860	0.825
	ST.DEV.	0.118	0.109	0.046	0.092	0.065	0.028
	N	3	3	3	3	3	3
LIVER	MEAN	7.01	6.87	6.85	7.30	6.83	7.49
	ST.DEV.	1.14	0.57	0.86	1.56	0.20	0.30
	N	3	3	3	3	3	3
KIDNEYS	MEAN	1.60	1.63	1.54	1.68	1.62	1.68
	ST.DEV.	0.25	0.09	0.14	0.25	0.12	0.12
	N	3	3	3	3	3	3
ADRENALS	MEAN	0.065	0.064	0.062	0.061	0.065	0.058
	ST.DEV.	0.012	0.013	0.008	0.001	0.003	0.010
	N	3	3	3	3	3	3
SPLEEN	MEAN	0.445	0.443	0.426	0.504	0.355	0.427
	ST.DEV.	0.056	0.140	0.065	0.104	0.024	0.060
	N	3	3	3	3	3	3
OVARIES	MEAN	0.133	0.146	0.145	0.165	0.153	0.141
	ST.DEV.	0.013	0.029	0.013	0.040	0.047	0.003
	N	3	3	3	3	3	3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

**ORGAN/BODY WEIGHT RATIOS SUMMARY
AFTER 4 WEEKS RECOVERY
FEMALES**

TREATMENT		GROUP 1 VEHICLE CONTROL	GROUP 2 TELOMER ALCOHOL	GROUP 3 TELOMER ACRYLATE	GROUP 4	GROUP 5 PFHS	GROUP 6 PFOS
BODY W. (GRAM)	MEAN ST.DEV. N	243 27 3	228 11 3	226 25 3	235 35 3	226 13 3	208 11 3
BRAIN (%)	MEAN ST.DEV. N	0.79 0.08 3	0.86 0.03 3	0.84 0.06 3	0.85 0.12 3	0.83 0.01 3	0.90 0.04 3
HEART (%)	MEAN ST.DEV. N	0.379 0.039 3	0.372 0.029 3	0.387 0.021 3	0.392 0.021 3	0.380 0.017 3	0.398 0.032 3
LIVER (%)	MEAN ST.DEV. N	2.88 0.20 3	3.02 0.21 3	3.03 0.14 3	3.09 0.29 3	3.02 0.17 3	3.61 ** 0.20 3
KIDNEYS (%)	MEAN ST.DEV. N	0.66 0.04 3	0.72 0.07 3	0.69 0.07 3	0.71 0.05 3	0.72 0.08 3	0.81 * 0.03 3
ADRENALS (%)	MEAN ST.DEV. N	0.027 0.005 3	0.028 0.006 3	0.028 0.004 3	0.026 0.003 3	0.029 0.001 3	0.028 0.006 3
SPLEEN (%)	MEAN ST.DEV. N	0.184 0.023 3	0.193 0.052 3	0.192 0.046 3	0.216 0.048 3	0.157 0.019 3	0.206 0.031 3
OVARIES (%)	MEAN ST.DEV. N	0.055 0.009 3	0.064 0.010 3	0.065 0.011 3	0.070 0.012 3	0.068 0.023 3	0.068 0.002 3

*/**: Dunnett-test based on pooled variance sig. at 5% or 1% level.

HISTORICAL DATA HAEMATOLOGY¹
ANIMALS OF 10-12 WEEKS OF AGE
MALES AND FEMALES

PARAMETER	SEX	N	MEAN	ST. DEV.	MIN.	MAX.
RBC	M	50	7.08	0.36	6.42	7.95
T/l	F	44	6.63	0.32	6	7.5
HB	M	50	9.8	0.5	8.8	10.8
mmol/l	F	44	9.5	0.3	8.9	10.4
HCT	M	50	0.415	0.019	0.384	0.463
l/l	F	44	0.386	0.016	0.353	0.437
MCV	M	50	58.6	1.8	55	63.6
fl	F	44	58.3	1.4	55.4	60.7
MCH	M	50	1.387	0.073	1.245	1.52
fmo1	F	44	1.441	0.055	1.345	1.584
MCHC	M	50	23.7	1.1	21.1	25.5
mmol/l	F	44	24.7	0.6	23.5	26.3
PLATELETS	M	50	1137	148	760	1486
G/l	F	44	1114	139	753	1513
RDW	M	50	12.2	0.7	11.1	14.4
%	F	44	11.7	0.6	10.6	13.1
WBC	M	50	11.8	2.7	4.7	17.5
G/l	F	44	9.2	2.6	5.3	18.7
SEG	M	50	0.11	0.049	0.015	0.235
1(rel)	F	44	0.097	0.065	0.02	0.27
EO	M	50	0.006	0.007	0	0.02
1(rel)	F	44	0.008	0.008	0	0.03
BASO	M	50	0	0	0	0
1(rel)	F	44	0	0	0	0
LYMPH	M	50	0.855	0.061	0.705	0.985
1(rel)	F	44	0.87	0.07	0.705	0.965
MONO	M	50	0.028	0.021	0	0.085
1(rel)	F	44	0.025	0.020	0	0.075
PT	M	44	13.2	1	11.2	15.5
sec	F	37	13.9	0.9	12	15.7
PTT	M	44	16.5	1.8	11.9	19.7
sec	F	36	15.5	1.9	10.3	19.4

¹ Data are from Sprague Dawley control rats which received the vehicle (in general 0.9% NaCl) via continuous intravenous infusion. Due to the limited availability of data no confidence intervals were calculated.

HISTORICAL DATA HAEMATOLOGY¹
ANIMALS OF 13-18 WEEKS OF AGE
MALES AND FEMALES

PARAMETER	SEX	N	MEAN	ST. DEV.	MIN.	MAX.
RBC	M	42	7.34	0.73	5.59	8.7
T/l	F	30	6.81	0.47	5.59	7.65
HB	M	42	9.3	1.3	5.6	11
mmol/l	F	30	8.8	0.6	7	9.9
HCT	M	42	0.399	0.047	0.264	0.472
l/l	F	30	0.376	0.027	0.313	0.423
MCV	M	42	54	2.9	45.3	59.6
fl	F	30	55.2	2.1	51.5	59.8
MCH	M	42	1.251	0.087	0.961	1.391
fmol	F	30	1.3	0.054	1.19	1.42
MCHC	M	42	23.1	0.8	21.2	24.4
mmol/l	F	30	23.6	0.5	22.4	24.6
PLATELETS	M	42	1096	170	669	1455
G/l	F	30	1130	145	855	1515
RDW	M	42	14.6	1.8	12.7	20.5
%	F	30	12.9	0.8	11.6	15.2
WBC	M	42	14.2	5.6	6.1	33.9
G/l	F	30	8.4	2	4.7	12
SEG	M	42	0.157	0.093	0.04	0.505
1(rel)	F	30	0.148	0.102	0.04	0.42
EO	M	42	0.009	0.009	0	0.035
1(rel)	F	30	0.008	0.008	0	0.03
BASO	M	42	0	0	0	0
1(rel)	F	30	0	0	0	0
LYMPH	M	42	0.803	0.108	0.45	0.935
1(rel)	F	30	0.823	0.105	0.54	0.945
MONO	M	42	0.031	0.025	0	0.105
1(rel)	F	30	0.020	0.016	0	0.065
PT	M	38	14.2	1.3	11.9	17.3
sec	F	29	13.8	1	11.9	15.6
PTT	M	38	16.4	2.1	11.6	21.2
sec	F	29	16.3	1.9	12.3	19.6

¹ Data are from Sprague Dawley control rats which received the vehicle (in general 0.9% NaCl) via continuous intravenous infusion. Due to the limited availability of data no confidence intervals were calculated.

HISTORICAL DATA CLINICAL BIOCHEMISTRY¹
ANIMALS OF 10-12 WEEKS OF AGE
MALES AND FEMALES

PARAMETER	SEX	N	MEAN	ST. DEV.	MIN.	MAX.
ALAT/GPT μkat/l	M F	51 45	0.66 0.54	0.11 0.15	0.45 0.24	0.98 1.06
ASAT/GOT μkat/l	M F	51 45	2.51 2.46	0.6 0.43	1.54 1.69	3.8 3.48
BILI T. μmol/l	M F	51 45	2 3	1 1	1 2	4 5
CHOLEST. T. mmol/l	M F	51 45	1.95 2.05	0.34 0.4	1.25 1.08	2.98 3.31
TRIGL. mmol/l	M F	51 45	0.69 0.42	0.37 0.09	0.34 0.26	2.11 0.68
CREATININE μmol/l	M F	51 45	33 40	6 6	25 31	54 56
GLUCOSE mmol/l	M F	51 45	6.03 5.32	1.07 0.68	3.86 3.87	8.45 7.4
UREA mmol/l	M F	51 45	6.1 8.1	1.6 2.1	3 4.5	8.9 12.8
PROTEIN T. g/l	M F	51 45	64.1 67.4	2.9 4.2	57.7 59.5	70.9 75.5
ALBUMIN g/l	M F	51 45	29.5 32.6	1.8 2	24.5 28.4	32.8 36.6
GLOBULIN g/l	M F	51 45	34.6 34.8	2.5 4.5	29.1 25.8	40.9 43.7
A/G RATIO 1	M F	51 45	0.9 1	0.1 0.1	0.6 0.7	1 1.3
ALP μkat/l	M F	51 45	7.38 4.3	1.87 1.19	2.94 2.63	12.3 7.86
SODIUM mmol/l	M F	51 45	143.3 141.2	1.6 1.6	138.5 137.5	146.3 144.8
POTASSIUM mmol/l	M F	51 45	4.83 4.59	0.43 0.3	3.35 3.97	5.97 5.32
CHLORIDE mmol/l	M F	51 45	100 101	3 3	95 94	106 110

¹ Data are from Sprague Dawley control rats which received the vehicle (in general 0.9% NaCl) via continuous intravenous infusion. Due to the limited availability of data no confidence intervals were calculated.

HISTORICAL DATA CLINICAL BIOCHEMISTRY¹
ANIMALS OF 10-12 WEEKS OF AGE
MALES AND FEMALES

PARAMETER	SEX	N	MEAN	ST. DEV.	MIN.	MAX.
CALCIUM mmol/l	M	51	2.6	0.09	2.41	2.8
	F	45	2.67	0.09	2.46	2.86
INORG. PHOSPH. M mmol/l	M	51	2.78	0.21	2.29	3.27
	F	45	2.55	0.25	2.09	3.38

¹ Data are from Sprague Dawley control rats which received the vehicle (in general 0.9% NaCl) via continuous intravenous infusion. Due to the limited availability of data no confidence intervals were calculated.

HISTORICAL DATA CLINICAL BIOCHEMISTRY¹
ANIMALS OF 13-18 WEEKS OF AGE
MALES AND FEMALES

PARAMETER	SEX	N	MEAN	ST. DEV.	MIN.	MAX.
ALAT/GPT	M	42	0.77	0.38	0.47	2.98
µkat/l	F	28	0.64	0.19	0.33	1.15
ASAT/GOT	M	42	2.64	0.55	1.65	4.05
µkat/l	F	28	2.31	0.42	1.45	3.09
BILI T.	M	42	2	1	1	4
µmol/l	F	28	3	1	2	5
CHOLEST. T.	M	42	1.93	0.43	0.98	2.8
mmol/l	F	28	2.49	0.45	1.69	3.27
TRIGL.	M	42	0.58	0.25	0.23	1.13
mmol/l	F	28	0.47	0.19	0.27	1.24
CREATININE	M	41	37	4	27	46
µmol/l	F	28	42	5	35	52
GLUCOSE	M	42	6.38	1.22	4.21	10.65
mmol/l	F	28	5.93	0.71	5.04	7.43
UREA	M	46	5.5	1.4	3	8.5
mmol/l	F	32	5.7	1.5	3.7	9.6
PROTEIN T.	M	42	66.4	3.8	56	74
g/l	F	28	72.5	3.5	66.8	81
ALBUMIN	M	42	28.1	3	21	32.8
g/l	F	28	32	3.8	23.9	38.2
GLOBULIN	M	42	38.2	4.2	31	49
g/l	F	28	40.5	4.4	34.4	50.8
A/G RATIO	M	42	0.7	0.1	0.4	1
1	F	28	0.8	0.2	0.5	1.1
ALP	M	42	4.21	1.04	2.45	7.55
µkat/l	F	28	3.32	2.51	1.15	14.54
SODIUM	M	42	142	2.4	137.1	148.3
mmol/l	F	28	140	2.7	135.8	147.1
POTASSIUM	M	42	5	0.36	4.38	5.81
mmol/l	F	28	4.43	0.29	3.87	5.19
CHLORIDE	M	42	101	3	96	107
mmol/l	F	28	103	3	98	110

¹ Data are from Sprague Dawley control rats which received the vehicle (in general 0.9% NaCl) via continuous intravenous infusion. Due to the limited availability of data no confidence intervals were calculated.

HISTORICAL DATA CLINICAL BIOCHEMISTRY ¹
ANIMALS OF 13-18 WEEKS OF AGE
MALES AND FEMALES

PARAMETER	SEX	N	MEAN	ST. DEV.	MIN.	MAX.
CALCIUM mmo1/l	M	42	2.53	0.14	2.23	2.78
	F	28	2.5	0.17	2.26	2.8
INORG. PHOSPH. mmo1/l	M	42	2.6	0.24	2.17	3.34
	F	28	2.1	0.23	1.65	2.56

¹ Data are from Sprague Dawley control rats which received the vehicle (in general 0.9% NaCl) via continuous intravenous infusion. Due to the limited availability of data no confidence intervals were calculated.

TABLES - INDIVIDUAL DATA

MORTALITY DATA
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
1	03-NOV-98		06-OCT-98	02-NOV-98
2	03-NOV-98		06-OCT-98	02-NOV-98
3	03-NOV-98		06-OCT-98	02-NOV-98
4	03-NOV-98		06-OCT-98	02-NOV-98
5	04-NOV-98		06-OCT-98	03-NOV-98
6	04-NOV-98		06-OCT-98	03-NOV-98
7	04-NOV-98		06-OCT-98	03-NOV-98
8	04-NOV-98		06-OCT-98	03-NOV-98
9	18-NOV-98		06-OCT-98	03-NOV-98
10	18-NOV-98		06-OCT-98	03-NOV-98
11	18-NOV-98		06-OCT-98	03-NOV-98
13	02-DEC-98		06-OCT-98	03-NOV-98
14	02-DEC-98		06-OCT-98	03-NOV-98
15	02-DEC-98		06-OCT-98	03-NOV-98

MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
17	03-NOV-98		06-OCT-98	02-NOV-98
18	03-NOV-98		06-OCT-98	02-NOV-98
19	03-NOV-98		06-OCT-98	02-NOV-98
20	03-NOV-98		06-OCT-98	02-NOV-98
21	04-NOV-98		06-OCT-98	03-NOV-98
22	04-NOV-98		06-OCT-98	03-NOV-98
23	04-NOV-98		06-OCT-98	03-NOV-98
24	04-NOV-98		06-OCT-98	03-NOV-98
25	18-NOV-98		06-OCT-98	03-NOV-98
26	18-NOV-98		06-OCT-98	03-NOV-98
27	18-NOV-98		06-OCT-98	03-NOV-98
29	02-DEC-98		06-OCT-98	03-NOV-98
30	02-DEC-98		06-OCT-98	03-NOV-98
31	02-DEC-98		06-OCT-98	03-NOV-98

MORTALITY DATA
MALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
33	03-NOV-98		06-OCT-98	02-NOV-98
34	03-NOV-98		06-OCT-98	02-NOV-98
35	03-NOV-98		06-OCT-98	02-NOV-98
36	03-NOV-98		06-OCT-98	02-NOV-98
37	04-NOV-98		06-OCT-98	03-NOV-98
38	04-NOV-98		06-OCT-98	03-NOV-98
39	04-NOV-98		06-OCT-98	03-NOV-98
40	04-NOV-98		06-OCT-98	03-NOV-98
41	18-NOV-98		06-OCT-98	03-NOV-98
42	18-NOV-98		06-OCT-98	03-NOV-98
43	18-NOV-98		06-OCT-98	03-NOV-98
45	02-DEC-98		06-OCT-98	03-NOV-98
46	02-DEC-98		06-OCT-98	03-NOV-98
47	02-DEC-98		06-OCT-98	03-NOV-98

MALES
GROUP 4

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
49	03-NOV-98		06-OCT-98	02-NOV-98
50	03-NOV-98		06-OCT-98	02-NOV-98
51	03-NOV-98		06-OCT-98	02-NOV-98
52	03-NOV-98		06-OCT-98	02-NOV-98
53	04-NOV-98		06-OCT-98	03-NOV-98
54	04-NOV-98		06-OCT-98	03-NOV-98
55	04-NOV-98		06-OCT-98	03-NOV-98
56	04-NOV-98		06-OCT-98	03-NOV-98
57	18-NOV-98		06-OCT-98	03-NOV-98
58	18-NOV-98		06-OCT-98	03-NOV-98
59	18-NOV-98		06-OCT-98	03-NOV-98
61	02-DEC-98		06-OCT-98	03-NOV-98
62	02-DEC-98		06-OCT-98	03-NOV-98
63	02-DEC-98		06-OCT-98	03-NOV-98

**MORTALITY DATA
MALES
GROUP 5 (PFHS)**

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
65	03-NOV-98		06-OCT-98	02-NOV-98
66	03-NOV-98		06-OCT-98	02-NOV-98
67	03-NOV-98		06-OCT-98	02-NOV-98
68	03-NOV-98		06-OCT-98	02-NOV-98
69	04-NOV-98		06-OCT-98	03-NOV-98
70	04-NOV-98		06-OCT-98	03-NOV-98
71	04-NOV-98		06-OCT-98	03-NOV-98
72	04-NOV-98		06-OCT-98	03-NOV-98
73	18-NOV-98		06-OCT-98	03-NOV-98
74	18-NOV-98		06-OCT-98	03-NOV-98
75	18-NOV-98		06-OCT-98	03-NOV-98
77	02-DEC-98		06-OCT-98	03-NOV-98
78	02-DEC-98		06-OCT-98	03-NOV-98
79	02-DEC-98		06-OCT-98	03-NOV-98

**MALES
GROUP 6 (PFOS)**

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
81	03-NOV-98		06-OCT-98	02-NOV-98
82	03-NOV-98		06-OCT-98	02-NOV-98
83	03-NOV-98		06-OCT-98	02-NOV-98
84	03-NOV-98		06-OCT-98	02-NOV-98
85	04-NOV-98		06-OCT-98	03-NOV-98
86	04-NOV-98		06-OCT-98	03-NOV-98
87	04-NOV-98		06-OCT-98	03-NOV-98
88	04-NOV-98		06-OCT-98	03-NOV-98
89	18-NOV-98		06-OCT-98	03-NOV-98
90	18-NOV-98		06-OCT-98	03-NOV-98
91	18-NOV-98		06-OCT-98	03-NOV-98
93	02-DEC-98		06-OCT-98	03-NOV-98
94	02-DEC-98		06-OCT-98	03-NOV-98
95	02-DEC-98		06-OCT-98	03-NOV-98

MORTALITY DATA
FEMALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
97	05-NOV-98		08-OCT-98	04-NOV-98
98	05-NOV-98		08-OCT-98	04-NOV-98
99	05-NOV-98		08-OCT-98	04-NOV-98
100	05-NOV-98		08-OCT-98	04-NOV-98
101	06-NOV-98		08-OCT-98	05-NOV-98
102	06-NOV-98		08-OCT-98	05-NOV-98
103	06-NOV-98		08-OCT-98	05-NOV-98
104	06-NOV-98		08-OCT-98	05-NOV-98
105	20-NOV-98		08-OCT-98	05-NOV-98
106	20-NOV-98		08-OCT-98	05-NOV-98
107	20-NOV-98		08-OCT-98	05-NOV-98
109	04-DEC-98		08-OCT-98	05-NOV-98
110	04-DEC-98		08-OCT-98	05-NOV-98
111	04-DEC-98		08-OCT-98	05-NOV-98

FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
113	05-NOV-98		08-OCT-98	04-NOV-98
114	05-NOV-98		08-OCT-98	04-NOV-98
115	05-NOV-98		08-OCT-98	04-NOV-98
116	05-NOV-98		08-OCT-98	04-NOV-98
117	06-NOV-98		08-OCT-98	05-NOV-98
118	06-NOV-98		08-OCT-98	05-NOV-98
119	06-NOV-98		08-OCT-98	05-NOV-98
120	06-NOV-98		08-OCT-98	05-NOV-98
121	20-NOV-98		08-OCT-98	05-NOV-98
122	20-NOV-98		08-OCT-98	05-NOV-98
123	20-NOV-98		08-OCT-98	05-NOV-98
125	04-DEC-98		08-OCT-98	05-NOV-98
126	04-DEC-98		08-OCT-98	05-NOV-98
127	04-DEC-98		08-OCT-98	05-NOV-98

MORTALITY DATA
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
129		05-NOV-98	08-OCT-98	04-NOV-98
130	05-NOV-98		08-OCT-98	04-NOV-98
131	05-NOV-98		08-OCT-98	04-NOV-98
132	05-NOV-98		08-OCT-98	04-NOV-98
133	06-NOV-98		08-OCT-98	05-NOV-98
134	06-NOV-98		08-OCT-98	05-NOV-98
135	06-NOV-98		08-OCT-98	05-NOV-98
136	06-NOV-98		08-OCT-98	05-NOV-98
137	20-NOV-98		08-OCT-98	05-NOV-98
138	20-NOV-98		08-OCT-98	05-NOV-98
139	20-NOV-98		08-OCT-98	05-NOV-98
141	04-DEC-98		08-OCT-98	05-NOV-98
142	04-DEC-98		08-OCT-98	05-NOV-98
143	04-DEC-98		08-OCT-98	05-NOV-98

FEMALES
GROUP 4

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
145	05-NOV-98		08-OCT-98	04-NOV-98
146	05-NOV-98		08-OCT-98	04-NOV-98
147	05-NOV-98		08-OCT-98	04-NOV-98
148	05-NOV-98		08-OCT-98	04-NOV-98
149	06-NOV-98		08-OCT-98	05-NOV-98
150	06-NOV-98		08-OCT-98	05-NOV-98
151	06-NOV-98		08-OCT-98	05-NOV-98
152	06-NOV-98		08-OCT-98	05-NOV-98
153	20-NOV-98		08-OCT-98	05-NOV-98
154	20-NOV-98		08-OCT-98	05-NOV-98
155	20-NOV-98		08-OCT-98	05-NOV-98
157	04-DEC-98		08-OCT-98	05-NOV-98
158	04-DEC-98		08-OCT-98	05-NOV-98
159	04-DEC-98		08-OCT-98	05-NOV-98

000125

**MORTALITY DATA
FEMALES
GROUP 5 (PFHS)**

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
161	05-NOV-98		08-OCT-98	04-NOV-98
162	05-NOV-98		08-OCT-98	04-NOV-98
163	05-NOV-98		08-OCT-98	04-NOV-98
164	05-NOV-98		08-OCT-98	04-NOV-98
165	06-NOV-98		08-OCT-98	05-NOV-98
166	06-NOV-98		08-OCT-98	05-NOV-98
167	06-NOV-98		08-OCT-98	05-NOV-98
168	06-NOV-98		08-OCT-98	05-NOV-98
169	20-NOV-98		08-OCT-98	05-NOV-98
170	20-NOV-98		08-OCT-98	05-NOV-98
171	20-NOV-98		08-OCT-98	05-NOV-98
173	04-DEC-98		08-OCT-98	05-NOV-98
174	04-DEC-98		08-OCT-98	05-NOV-98
175	04-DEC-98		08-OCT-98	05-NOV-98

**FEMALES
GROUP 6 (PFOS)**

ANIMAL	SCHEDULED NECROPSY	OTHER	TREATMENT FROM	TO
177	05-NOV-98		08-OCT-98	04-NOV-98
178	05-NOV-98		08-OCT-98	04-NOV-98
179	05-NOV-98		08-OCT-98	04-NOV-98
180	05-NOV-98		08-OCT-98	04-NOV-98
181	06-NOV-98		08-OCT-98	05-NOV-98
182	06-NOV-98		08-OCT-98	05-NOV-98
183	06-NOV-98		08-OCT-98	05-NOV-98
184	06-NOV-98		08-OCT-98	05-NOV-98
185	20-NOV-98		08-OCT-98	05-NOV-98
186	20-NOV-98		08-OCT-98	05-NOV-98
187	20-NOV-98		08-OCT-98	05-NOV-98
189	04-DEC-98		08-OCT-98	05-NOV-98
190	04-DEC-98		08-OCT-98	05-NOV-98
191	04-DEC-98		08-OCT-98	05-NOV-98

G: Highest grades
Time after treatment (H.Mi) A: 0.00 B: 4.00

CLINICAL SIGNS, DAILY
MALES
GROUP 1 (VEHICLE CONTROL)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 9

SKIN / FUR / PLUMAGEALOPECIA (3)
(CHEST)

G:12222222.

ANIMAL 15

VARIOUSBULGING EYE (1)
(EYE RIGHT)
DARK (3)
(EYE RIGHT)

G: 11.....

G: 11.....

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
MALES
GROUP 2 (TELOMER ALCOHOL)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
--------------------------------	---

ANIMAL 25

SKIN / FUR / PLUMAGE	
RED STAINING (3)	G:111.....
(PERIORBITAL REGION LEFT)	

ANIMAL 26

SKIN / FUR / PLUMAGE	
SCABS (3)	G: 11.....
(SNOUT)	

ANIMAL 27

SKIN / FUR / PLUMAGE	
RED STAINING (3)	G:1.....
(PERIORBITAL REGION RIGHT)	

ANIMAL 29

BREATHING	
RALES (3)	G: 11111111111111111111.....
SKIN / FUR / PLUMAGE	
ALOPECIA (3)	G: 11111.....
(ABDOMEN)	

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
MALES
GROUP 3 (TELOMER ACRYLATE)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 45

SKIN / FUR / PLUMAGE	
RED STAINING (3)	G:111111.
(NECK)	

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
MALES
GROUP 4

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 61

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:1111111111111111.
(EYE RIGHT)	

VARIOUS

✓ EYE RIGHT, INJURED (1)	G: 11111111111111111111111111111111.
DEHYDRATED (3)	G: .22222.....
(EYE RIGHT)	
BULGING EYE (1)	G: 11111.....
(EYE RIGHT)	
DARK (3)	G: 11111.....
(EYE RIGHT)	

ANIMAL 62

VARIOUS

DARK (3)	G: 11.....
(EYE RIGHT)	

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS
MALES
GROUP 5 (PFHS)

SIGN (MAX.GRADE)	TREATMENT																																				
	WEEKS: 1.....2.....3.....4.....5.																																				
	DAYS: 1.2.3.4.5.6.7.1.2.3.4.5.6.7.1.2.3.4.5.6.7.1.																																				
	TIME: AA																																				
ANIMAL 65	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
SKIN / FUR / PLUMAGE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
RED STAINING (3) (EAR LEFT)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
ANIMAL 67	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
SKIN / FUR / PLUMAGE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
RED STAINING (3) (SNOUT)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
ANIMAL 72	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
SKIN / FUR / PLUMAGE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
WOUND (3) (BACK)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
ANIMAL 74	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
POSTURE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
HUNCHED POSTURE (1)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
ANIMAL 79	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
SKIN / FUR / PLUMAGE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
RED STAINING (3) (NECK)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
RED STAINING (3) (CERVICAL REGION)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
VARIOUS	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
DARK (3) (EYE RIGHT)	G:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
MALES
GROUP 5 (PFHS)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 74

POSTURE

HUNCHED POSTURE (1)	G: 11.....
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ANIMAL 79

SKIN / FUR / PLUMAGE

RED STAINING (3)	G:11.....
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(NECK)

RED STAINING (3)	G:111111111111111111.
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(CERVICAL REGION)

VARIOUS

DARK (3)	G: 11.....
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(EYE RIGHT)

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

[illegible][illegible]

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

G: Highest grades
Time after treatment (H.Mi) A: 0.00 B: 4.00

CLINICAL SIGNS, DAILY
MALES
GROUP 6 (PFOS)

SIGN (MAX.GRADE)	RECOVERY
(LOCATION)	WEEKS: 1.....2.....3.....4.....5.

ANIMAL 95

SKIN / FUR / PLUMAGE

RED STAINING (3)
(HEAD)

G:11111111.

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
FEMALES
GROUP 1 (VEHICLE CONTROL)

SIGN (MAX.GRADE)	RECOVERY
(LOCATION)	WEEKS: 1.....2.....3.....4.....5.

ANIMAL 105

SKIN / FUR / PLUMAGE

SCABS (3)

G: ...1111111111..

(ABDOMEN)

ANIMAL 106

SKIN / FUR / PLUMAGE

ALOPECIA (3)

G:1111.

(NECK)

ANIMAL 109

SKIN / FUR / PLUMAGE

ALOPECIA (3)

G:1111.....

(FLANK RIGHT)

ALOPECIA (3)

G: ...1111111111.....

(THIGH HIND LEFT)

ALOPECIA (3)

G: 11111111111111.....

(THIGH HIND RIGHT)

ANIMAL 111

SKIN / FUR / PLUMAGE

ALOPECIA (3)

G:1111111111

(GENERAL)

ALOPECIA (3)

G:11.....

(CHEEK LEFT)

ALOPECIA (3)

G:1111111111.....

(BACK)

ALOPECIA (3)

G:1111111111.....

(ABDOMEN)

ALOPECIA (3)

G: 11111111111111.....

(FLANK LEFT)

ALOPECIA (3)

G: 11122222222222.....

(FLANK RIGHT)

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
FEMALES
GROUP 2 (TELOMER ALCOHOL)SIGN (MAX.GRADE) RECOVERY
(LOCATION) WEEKS: 1.....2.....3.....4.....5.

ANIMAL 121

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:2222211.
(HEAD)	
ALOPECIA (3)	G: .111222222222.
(CHEEK LEFT)	
ALOPECIA (3)	G:122222222.
(CHEEK RIGHT)	

ANIMAL 122

SKIN / FUR / PLUMAGE

ALOPECIA (3)	G:11222222.
(CHEEK LEFT)	
ALOPECIA (3)	G:122222222.
(CHEEK RIGHT)	
SCALES (3)	G:1111111.
(CHEEK LEFT)	
SCALES (3)	G:1111111.
(CHEEK RIGHT)	

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
FEMALES
GROUP 3 (TELOMER ACRYLATE)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 138

POSTURE	
HUNCHED POSTURE (1)	G: 1111111111111111.
SKIN / FUR / PLUMAGE	
PILOERECTION (1)	G: .1111.....

ANIMAL 139

POSTURE	
HUNCHED POSTURE (1)	G: 1111111.....
SKIN / FUR / PLUMAGE	
ALOPECIA (3) (ABDOMEN)	G: 1111111111111111.

ANIMAL 141

SKIN / FUR / PLUMAGE	
RED STAINING (3) (HEAD)	G:11

ANIMAL 142

SKIN / FUR / PLUMAGE	
RED STAINING (3) (HEAD)	G:11

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
FEMALES
GROUP 4 ()

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 159

SKIN / FUR / PLUMAGESCABS (3) G:1.
(NECK)RED STAINING (3) G: ...11.....
(EYE RIGHT)RED STAINING (3) G:11.....1111.....
(PERIORBITAL REGION RIGHT)

SECRETION / EXCRETION

WATERY DISCHARGE FROM EY (3) G:11.....
(EYE RIGHT)

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
FEMALES
GROUP 5 (PFHS)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 173

SKIN / FUR / PLUMAGE

ALOPECIA (3) (NECK)	G:11111111111111111111
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ANIMAL 174

SKIN / FUR / PLUMAGE

ALOPECIA (3) (BACK)	G:11
ALOPECIA (3) (ABDOMEN)	G: 111....11111111111111111111

ANIMAL 175

SKIN / FUR / PLUMAGE

ALOPECIA (3) (NECK)	G: 111.....11111111111111111111
ALOPECIA (3) (HINDLEG RIGHT)	G:1111.....

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

CLINICAL SIGNS, DAILY
FEMALES
GROUP 6 (PFOS)

SIGN (MAX.GRADE) (LOCATION)	RECOVERY WEEKS: 1.....2.....3.....4.....5.
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ANIMAL 185

SKIN / FUR / PLUMAGE	
RED STAINING (3) (HEAD)	G: ...11.....

ANIMAL 186

SKIN / FUR / PLUMAGE	
RED STAINING (3) (HEAD)	G: ...1111111111.

ANIMAL 187

SKIN / FUR / PLUMAGE	
RED STAINING (3) (HEAD)	G: 1113211.....11.
RED STAINING (3) (EAR LEFT)	G: ...111111111...
RED STAINING (3) (EAR RIGHT)	G:111...
RED STAINING (3) (NECK)	G:11111.

ANIMAL 190

SKIN / FUR / PLUMAGE	
ALOPECIA (3) (ABDOMEN)	G: 11111.....

NO FURTHER CLINICAL SIGNS NOTED IN THIS GROUP

BODY WEIGHTS (GRAM)
MALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 1 (VEHICLE CONTROL)									
1	232	219	235	257	262	281	289	301	309
2	202	253	274	297	311	332	341	354	365
3	228	252	274	300	313	341	351	360	377
4	196	214	230	246	255	271	282	288	298
5	209	235	258	278	288	301	308	322	330
6	221	249	270	288	304	319	334	350	356
7	222	245	269	297	316	341	349	368	381
8	197	221	244	266	280	297	304	317	322
9	207	236	247	274	277	303	310	322	336
10	184	206	207	229	226	245	251	260	276
11	207	232	240	264	277	295	310	316	328
12	---	---	---	---	---	---	---	---	---
13	208	238	250	281	285	311	323	345	356
14	190	217	227	254	262	286	299	309	322
15	211	233	243	270	275	309	319	328	342
16	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
17	224	245	265	286	299	319	329	342	359
18	230	261	280	307	329	354	359	384	389
19	219	241	259	277	288	311	322	327	342
20	209	235	251	270	285	300	307	320	328
21	189	217	238	270	287	310	322	338	348
22	228	254	277	304	321	343	348	363	386
23	216	241	262	288	302	322	328	336	343
24	228	248	264	284	300	307	321	333	346
25	205	230	237	265	265	289	292	308	319
26	190	209	217	237	245	269	277	287	294
27	197	223	235	256	260	283	288	303	311
28	---	---	---	---	---	---	---	---	---
29	208	232	240	270	277	292	298	310	317
30	217	249	257	290	297	320	333	347	360
31	212	234	245	267	273	289	297	313	320
32	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
33	220	243	261	278	296	317	327	346	352
34	191	216	234	259	273	288	301	312	318
35	224	242	250	267	277	294	306	314	329
36	211	233	250	269	281	301	313	323	328
37	220	243	263	278	290	304	316	327	331
38	211	236	261	282	298	320	327	340	355
39	206	231	251	280	287	314	322	334	349
40	206	232	255	276	290	306	319	327	332
41	216	245	261	292	294	319	331	355	365
42	197	220	227	257	262	289	300	310	325
43	210	235	246	275	288	302	313	326	337
44	---	---	---	---	---	---	---	---	---
45	201	227	235	269	271	304	310	326	341
46	213	242	249	278	283	304	311	325	336
47	206	229	234	267	270	298	313	324	338
48	---	---	---	---	---	---	---	---	---
GROUP 4									
49	222	239	248	268	278	294	303	308	324
50	201	228	244	268	280	301	303	316	333
51	217	246	264	294	310	336	345	360	378
52	211	244	267	294	308	335	338	347	360
53	209	236	252	278	288	315	324	346	354

BODY WEIGHTS (GRAM)
MALES

DAYS WEEKS ANIMAL	RECOVERY								
	1	5	8	12	14	19	22	25	28
	1	1	2	2	2	3	4	4	4
GROUP 1 (VEHICLE CONTROL)									
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	318	348	359	364	373	---	---	---	---
10	253	279	285	299	303	---	---	---	---
11	310	339	351	362	366	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	334	370	381	394	398	414	421	435	440
14	297	337	341	348	353	365	373	385	387
15	314	354	361	379	378	393	403	415	419
16	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	298	330	337	346	354	---	---	---	---
26	277	303	308	319	320	---	---	---	---
27	289	318	330	342	345	---	---	---	---
28	---	---	---	---	---	---	---	---	---
29	289	315	317	334	328	342	349	353	355
30	336	385	388	402	401	413	416	430	429
31	296	334	345	357	358	371	381	389	388
32	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
33	---	---	---	---	---	---	---	---	---
34	---	---	---	---	---	---	---	---	---
35	---	---	---	---	---	---	---	---	---
36	---	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---	---	---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---
40	---	---	---	---	---	---	---	---	---
41	336	388	390	404	408	---	---	---	---
42	298	314	325	341	347	---	---	---	---
43	312	347	350	359	359	---	---	---	---
44	---	---	---	---	---	---	---	---	---
45	314	352	361	379	378	395	403	412	414
46	312	351	357	375	379	391	402	411	413
47	310	351	354	373	372	381	393	398	409
48	---	---	---	---	---	---	---	---	---
GROUP 4 (									
49	---	---	---	---	---	---	---	---	---
50	---	---	---	---	---	---	---	---	---
51	---	---	---	---	---	---	---	---	---
52	---	---	---	---	---	---	---	---	---
53	---	---	---	---	---	---	---	---	---

BODY WEIGHTS (GRAM)
MALES

	TREATMENT								
DAYS	1	5	8	12	15	19	22	25	28
WEEKS	1	1	2	2	3	3	4	4	4
ANIMAL									
GROUP 4 (									
54	223	252	270	296	300	321	330	340	352
55	206	232	246	263	268	290	293	306	313
56	200	223	232	249	252	267	266	278	285
57	206	240	252	290	298	336	348	374	398
58	203	235	247	270	281	309	321	334	348
59	199	228	237	266	276	299	304	314	325
60	---	---	---	---	---	---	---	---	---
61	229	264	278	317	327	359	369	380	397
62	215	238	253	283	288	316	321	345	359
63	205	230	240	268	274	291	300	316	329
64	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
65	234	257	282	310	284	351	364	381	392
66	199	217	231	254	267	282	285	298	299
67	211	232	248	270	281	300	304	315	327
68	214	233	249	273	283	301	310	322	324
69	204	225	246	269	273	296	295	308	315
70	226	257	281	305	318	343	355	375	379
71	208	234	258	282	296	315	317	330	337
72	211	237	259	280	291	310	314	329	334
73	222	254	268	297	307	338	343	365	380
74	189	203	201	224	219	241	245	255	256
75	197	220	231	264	266	296	307	321	333
76	---	---	---	---	---	---	---	---	---
77	206	233	240	267	272	299	306	318	327
78	184	210	211	233	236	263	271	287	290
79	200	226	238	255	255	276	285	291	301
80	---	---	---	---	---	---	---	---	---
GROUP 6 (FFOS)									
81	198	221	242	263	283	300	310	322	331
82	203	231	252	275	283	298	302	312	327
83	200	228	248	269	281	300	307	316	325
84	213	240	260	281	295	311	314	333	338
85	222	254	277	314	328	360	371	388	394
86	213	237	252	275	279	294	295	311	322
87	227	256	281	310	327	350	361	380	381
88	211	236	252	279	292	312	320	336	345
89	222	253	270	304	317	343	352	374	386
90	212	240	254	284	289	321	335	349	364
91	204	234	242	276	282	318	333	351	362
92	---	---	---	---	---	---	---	---	---
93	187	204	207	229	227	242	247	261	265
94	220	247	250	277	276	299	305	320	325
95	211	237	246	275	275	295	301	312	321
96	---	---	---	---	---	---	---	---	---

BODY WEIGHTS (GRAM)
MALES

DAYS WEEKS ANIMAL	RECOVERY								
	1	5	8	12	14	19	22	25	28
	1	1	2	2	2	3	4	4	4
GROUP 4 (									
54	---	---	---	---	---	---	---	---	---
55	---	---	---	---	---	---	---	---	---
56	---	---	---	---	---	---	---	---	---
57	365	414	426	449	456	---	---	---	---
58	321	363	367	383	383	---	---	---	---
59	301	338	344	357	356	---	---	---	---
60	---	---	---	---	---	---	---	---	---
61	362	406	424	437	429	453	462	473	468
62	326	370	383	402	398	420	428	441	443
63	302	342	353	370	368	383	387	396	394
64	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
65	---	---	---	---	---	---	---	---	---
66	---	---	---	---	---	---	---	---	---
67	---	---	---	---	---	---	---	---	---
68	---	---	---	---	---	---	---	---	---
69	---	---	---	---	---	---	---	---	---
70	---	---	---	---	---	---	---	---	---
71	---	---	---	---	---	---	---	---	---
72	---	---	---	---	---	---	---	---	---
73	352	397	412	420	418	---	---	---	---
74	234	264	274	277	275	---	---	---	---
75	307	342	350	365	361	---	---	---	---
76	---	---	---	---	---	---	---	---	---
77	305	345	356	357	360	369	373	392	386
78	267	301	314	321	324	335	339	360	350
79	279	313	319	325	331	337	341	353	350
80	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
81	---	---	---	---	---	---	---	---	---
82	---	---	---	---	---	---	---	---	---
83	---	---	---	---	---	---	---	---	---
84	---	---	---	---	---	---	---	---	---
85	---	---	---	---	---	---	---	---	---
86	---	---	---	---	---	---	---	---	---
87	---	---	---	---	---	---	---	---	---
88	---	---	---	---	---	---	---	---	---
89	354	408	412	428	429	---	---	---	---
90	340	380	384	397	404	---	---	---	---
91	339	377	390	405	408	---	---	---	---
92	---	---	---	---	---	---	---	---	---
93	245	276	284	296	298	306	315	331	326
94	306	343	349	362	362	381	387	396	401
95	293	329	338	356	355	366	375	385	384
96	---	---	---	---	---	---	---	---	---

BODY WEIGHTS (GRAM)
FEMALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 1 (VEHICLE CONTROL)									
97	168	172	176	189	200	210	217	222	220
98	164	170	179	193	196	209	207	208	217
99	165	171	180	195	199	213	212	224	227
100	179	178	193	208	197	218	220	228	244
101	182	190	208	221	234	246	248	267	268
102	194	200	204	212	231	238	243	248	251
103	163	164	172	180	177	189	200	207	206
104	179	193	201	213	222	235	233	248	252
105	158	169	171	189	189	200	202	217	219
106	196	210	218	237	241	255	257	268	275
107	172	180	185	202	200	213	206	225	232
108	---	---	---	---	---	---	---	---	---
109	163	162	166	179	181	188	195	199	204
110	169	180	185	204	200	219	215	238	247
111	184	192	197	211	216	230	235	243	243
112	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
113	170	176	184	191	205	213	222	233	227
114	182	191	206	220	230	249	255	266	271
115	182	184	195	203	208	222	219	234	238
116	180	188	194	207	218	229	233	242	242
117	157	167	173	184	191	204	200	214	224
118	168	174	176	190	200	212	216	227	221
119	163	168	178	193	202	211	213	220	233
120	166	182	191	198	211	218	214	238	241
121	163	170	168	178	178	189	195	208	208
122	163	171	169	184	180	193	206	212	209
123	175	183	187	200	204	216	221	236	238
124	---	---	---	---	---	---	---	---	---
125	162	165	172	184	186	204	203	209	216
126	164	168	166	181	183	197	199	208	211
127	166	182	184	205	202	220	223	230	236
128	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
129	170	179	185	192	190	205	204	220	225
130	154	161	167	177	175	186	191	206	208
131	171	171	186	195	201	211	212	218	222
132	175	180	193	201	209	212	221	228	231
133	153	164	166	176	180	191	192	203	203
134	172	181	192	197	198	206	218	234	236
135	181	192	198	216	222	237	244	250	249
136	166	170	183	192	184	199	204	218	215
137	157	164	167	181	188	204	212	218	214
138	167	177	176	184	182	185	183	195	201
139	158	157	162	175	176	191	197	202	199
140	---	---	---	---	---	---	---	---	---
141	154	163	169	186	186	200	197	203	206
142	160	164	166	182	178	191	192	205	204
143	183	192	199	215	215	230	229	249	248
144	---	---	---	---	---	---	---	---	---
GROUP 4 ()									
145	167	176	180	193	195	204	201	217	220
146	181	193	197	210	218	233	229	248	250
147	181	187	187	205	219	231	237	242	243
148	152	154	159	175	183	194	196	207	205
149	184	185	203	215	216	230	238	240	248

BODY WEIGHTS (GRAM)
FEMALES

DAYS WEEKS ANIMAL	RECOVERY								
	1	5	8	12	14	19	22	25	28
	1	1	2	2	2	3	4	4	4
GROUP 1 (VEHICLE CONTROL)									
97	---	---	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---	---	---
101	---	---	---	---	---	---	---	---	---
102	---	---	---	---	---	---	---	---	---
103	---	---	---	---	---	---	---	---	---
104	---	---	---	---	---	---	---	---	---
105	200	223	222	227	243	---	---	---	---
106	249	277	282	288	301	---	---	---	---
107	206	225	237	243	247	---	---	---	---
108	---	---	---	---	---	---	---	---	---
109	185	210	214	219	220	222	226	230	237
110	217	245	257	264	267	272	275	281	290
111	222	251	254	262	261	267	274	278	278
112	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
113	---	---	---	---	---	---	---	---	---
114	---	---	---	---	---	---	---	---	---
115	---	---	---	---	---	---	---	---	---
116	---	---	---	---	---	---	---	---	---
117	---	---	---	---	---	---	---	---	---
118	---	---	---	---	---	---	---	---	---
119	---	---	---	---	---	---	---	---	---
120	---	---	---	---	---	---	---	---	---
121	191	211	215	223	217	---	---	---	---
122	193	218	222	232	223	---	---	---	---
123	214	241	244	254	255	---	---	---	---
124	---	---	---	---	---	---	---	---	---
125	198	225	222	232	236	243	247	248	244
126	194	226	227	235	232	234	240	242	244
127	211	237	246	252	258	260	265	263	266
128	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
129	---	---	---	---	---	---	---	---	---
130	---	---	---	---	---	---	---	---	---
131	---	---	---	---	---	---	---	---	---
132	---	---	---	---	---	---	---	---	---
133	---	---	---	---	---	---	---	---	---
134	---	---	---	---	---	---	---	---	---
135	---	---	---	---	---	---	---	---	---
136	---	---	---	---	---	---	---	---	---
137	201	232	235	247	244	---	---	---	---
138	177	198	199	212	211	---	---	---	---
139	182	215	215	229	224	---	---	---	---
140	---	---	---	---	---	---	---	---	---
141	190	211	212	220	224	232	239	235	232
142	184	211	216	225	218	228	229	233	234
143	221	249	255	267	267	276	277	278	278
144	---	---	---	---	---	---	---	---	---
GROUP 4 ()									
145	---	---	---	---	---	---	---	---	---
146	---	---	---	---	---	---	---	---	---
147	---	---	---	---	---	---	---	---	---
148	---	---	---	---	---	---	---	---	---
149	---	---	---	---	---	---	---	---	---

BODY WEIGHTS (GRAM)
FEMALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 4 ()									
150	172	181	192	213	222	232	234	237	245
151	160	167	170	187	194	196	209	223	222
152	162	169	178	188	186	202	206	221	225
153	158	159	159	172	177	187	196	205	207
154	177	192	194	214	211	229	232	251	255
155	163	169	173	191	188	199	206	217	219
156	---	---	---	---	---	---	---	---	---
157	167	173	172	192	195	212	212	218	218
158	162	169	169	189	188	199	196	218	210
159	194	207	210	231	238	251	262	269	272
160	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
161	166	171	179	191	192	205	208	210	216
162	169	177	185	203	200	211	210	222	227
163	167	172	179	187	182	197	204	214	214
164	171	172	181	191	194	207	206	218	223
165	157	155	167	180	191	202	210	214	220
166	173	172	187	195	203	216	226	237	234
167	166	162	164	180	189	200	202	209	211
168	185	190	197	213	224	233	240	250	250
169	177	189	191	204	203	223	221	231	236
170	167	174	177	187	186	200	203	217	215
171	168	183	187	204	199	214	222	232	237
172	---	---	---	---	---	---	---	---	---
173	175	177	181	196	194	202	209	220	216
174	175	185	185	202	204	221	223	236	236
175	153	161	164	176	179	193	190	204	206
176	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
177	177	187	197	212	215	229	233	245	240
178	154	152	162	172	169	179	179	185	186
179	173	181	187	193	184	196	202	210	212
180	169	167	174	184	186	192	194	200	194
181	185	182	188	194	198	204	201	205	206
182	169	178	179	190	199	208	207	217	220
183	172	172	184	196	193	202	209	215	210
184	164	166	178	191	184	198	204	206	212
185	161	176	172	189	189	211	209	212	204
186	161	173	172	189	192	202	199	203	206
187	157	159	168	180	178	187	194	201	203
188	---	---	---	---	---	---	---	---	---
189	160	162	165	179	178	187	188	193	197
190	157	163	167	180	179	195	200	208	215
191	166	172	169	181	180	186	183	192	193
192	---	---	---	---	---	---	---	---	---

BODY WEIGHTS (GRAM)
FEMALES

	RECOVERY								
DAYS	1	5	8	12	14	19	22	25	28
WEEKS	1	1	2	2	2	3	4	4	4
ANIMAL									
GROUP 4									
150	---	---	---	---	---	---	---	---	---
151	---	---	---	---	---	---	---	---	---
152	---	---	---	---	---	---	---	---	---
153	189	221	228	238	236	---	---	---	---
154	230	257	263	273	271	---	---	---	---
155	201	228	234	238	234	---	---	---	---
156	---	---	---	---	---	---	---	---	---
157	205	225	233	237	235	232	240	250	243
158	197	220	214	222	237	240	241	245	240
159	252	267	268	280	277	286	293	301	303
160	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
161	---	---	---	---	---	---	---	---	---
162	---	---	---	---	---	---	---	---	---
163	---	---	---	---	---	---	---	---	---
164	---	---	---	---	---	---	---	---	---
165	---	---	---	---	---	---	---	---	---
166	---	---	---	---	---	---	---	---	---
167	---	---	---	---	---	---	---	---	---
168	---	---	---	---	---	---	---	---	---
169	220	236	247	248	248	---	---	---	---
170	198	220	227	236	232	---	---	---	---
171	216	243	245	258	257	---	---	---	---
172	---	---	---	---	---	---	---	---	---
173	200	226	225	233	226	238	239	250	249
174	216	249	251	256	254	258	263	273	269
175	188	211	217	227	229	234	237	239	244
176	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
177	---	---	---	---	---	---	---	---	---
178	---	---	---	---	---	---	---	---	---
179	---	---	---	---	---	---	---	---	---
180	---	---	---	---	---	---	---	---	---
181	---	---	---	---	---	---	---	---	---
182	---	---	---	---	---	---	---	---	---
183	---	---	---	---	---	---	---	---	---
184	---	---	---	---	---	---	---	---	---
185	188	216	218	226	222	---	---	---	---
186	187	212	219	221	220	---	---	---	---
187	184	207	214	223	223	---	---	---	---
188	---	---	---	---	---	---	---	---	---
189	178	197	204	209	215	219	218	219	221
190	196	216	222	227	228	239	235	238	244
191	177	194	201	209	213	220	218	220	222
192	---	---	---	---	---	---	---	---	---

BODY WEIGHT GAIN (%)
MALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 1 (VEHICLE CONTROL)									
1	0	-6	1	11	13	21	25	30	33
2	0	25	36	47	54	64	69	75	81
3	0	11	20	32	37	50	54	58	65
4	0	9	17	26	30	38	44	47	52
5	0	12	23	33	38	44	47	54	58
6	0	13	22	30	38	44	51	58	61
7	0	10	21	34	42	54	57	66	72
8	0	12	24	35	42	51	54	61	63
9	0	14	19	32	34	46	50	56	62
10	0	12	13	24	23	33	36	41	50
11	0	12	16	28	34	43	50	53	58
12	---	---	---	---	---	---	---	---	---
13	0	14	20	35	37	50	55	66	71
14	0	14	19	34	38	51	57	63	69
15	0	10	15	28	30	46	51	55	62
16	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
17	0	9	18	28	33	42	47	53	60
18	0	13	22	33	43	54	56	67	69
19	0	10	18	26	32	42	47	49	56
20	0	12	20	29	36	44	47	53	57
21	0	15	26	43	52	64	70	79	84
22	0	11	21	33	41	50	53	59	69
23	0	12	21	33	40	49	52	56	59
24	0	9	16	25	32	35	41	46	52
25	0	12	16	29	29	41	42	50	56
26	0	10	14	25	29	42	46	51	55
27	0	13	19	30	32	44	46	54	58
28	---	---	---	---	---	---	---	---	---
29	0	12	15	30	33	40	43	49	52
30	0	15	18	34	37	47	53	60	66
31	0	10	16	26	29	36	40	48	51
32	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
33	0	10	19	26	35	44	49	57	60
34	0	13	23	36	43	51	58	63	66
35	0	8	12	19	24	31	37	40	47
36	0	10	18	27	33	43	48	53	55
37	0	10	20	26	32	38	44	49	50
38	0	12	24	34	41	52	55	61	68
39	0	12	22	36	39	52	56	62	69
40	0	13	24	34	41	49	55	59	61
41	0	13	21	35	36	48	53	64	69
42	0	12	15	30	33	47	52	57	65
43	0	12	17	31	37	44	49	55	60
44	---	---	---	---	---	---	---	---	---
45	0	13	17	34	35	51	54	62	70
46	0	14	17	31	33	43	46	53	58
47	0	11	14	30	31	45	52	57	64
48	---	---	---	---	---	---	---	---	---
GROUP 4									
49	0	8	12	21	25	32	36	39	46
50	0	13	21	33	39	50	51	57	66
51	0	13	22	35	43	55	59	66	74
52	0	16	27	39	46	59	60	64	71
53	0	13	21	33	38	51	55	66	69

BODY WEIGHT GAIN (%)
MALES

	RECOVERY								
DAYS	1	5	8	12	14	19	22	25	28
WEEKS	1	1	2	2	2	3	4	4	4
ANIMAL									
GROUP 1 (VEHICLE CONTROL)									
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	54	68	73	76	80	---	---	---	---
10	38	52	55	63	65	---	---	---	---
11	50	64	70	75	77	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	61	78	83	89	91	99	102	109	112
14	56	77	79	83	86	92	96	103	104
15	49	68	71	80	79	86	91	97	99
16	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	45	61	64	69	73	---	---	---	---
26	46	59	62	68	68	---	---	---	---
27	47	61	68	74	75	---	---	---	---
28	---	---	---	---	---	---	---	---	---
29	39	51	52	61	58	64	68	70	71
30	55	77	79	85	85	90	92	98	98
31	40	58	63	68	69	75	80	83	83
32	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
33	---	---	---	---	---	---	---	---	---
34	---	---	---	---	---	---	---	---	---
35	---	---	---	---	---	---	---	---	---
36	---	---	---	---	---	---	---	---	---
37	---	---	---	---	---	---	---	---	---
38	---	---	---	---	---	---	---	---	---
39	---	---	---	---	---	---	---	---	---
40	---	---	---	---	---	---	---	---	---
41	56	80	81	87	89	---	---	---	---
42	51	59	65	73	76	---	---	---	---
43	49	65	67	71	71	---	---	---	---
44	---	---	---	---	---	---	---	---	---
45	56	75	80	89	88	97	100	105	106
46	46	65	68	76	78	84	89	93	94
47	50	70	72	81	81	85	91	93	99
48	---	---	---	---	---	---	---	---	---
GROUP 4 (									
49	---	---	---	---	---	---	---	---	---
50	---	---	---	---	---	---	---	---	---
51	---	---	---	---	---	---	---	---	---
52	---	---	---	---	---	---	---	---	---
53	---	---	---	---	---	---	---	---	---

BODY WEIGHT GAIN (%)
MALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 4 ()									
54	0	13	21	33	35	44	48	52	58
55	0	13	19	28	30	41	42	49	52
56	0	12	16	25	26	34	33	39	43
57	0	17	22	41	45	63	69	82	93
58	0	16	22	33	38	52	58	65	71
59	0	15	19	34	39	50	53	58	63
60	---	---	---	---	---	---	---	---	---
61	0	15	21	38	43	57	61	66	73
62	0	11	18	32	34	47	49	60	67
63	0	12	17	31	34	42	46	54	60
64	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
65	0	10	21	32	21	50	56	63	68
66	0	9	16	28	34	42	43	50	50
67	0	10	18	28	33	42	44	49	55
68	0	9	16	28	32	41	45	50	51
69	0	10	21	32	34	45	45	51	54
70	0	14	24	35	41	52	57	66	68
71	0	13	24	36	42	51	52	59	62
72	0	12	23	33	38	47	49	56	58
73	0	14	21	34	38	52	55	64	71
74	0	7	6	19	16	28	30	35	35
75	0	12	17	34	35	50	56	63	69
76	---	---	---	---	---	---	---	---	---
77	0	13	17	30	32	45	49	54	59
78	0	14	15	27	28	43	47	56	58
79	0	13	19	28	28	38	43	46	51
80	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
81	0	12	22	33	43	52	57	63	67
82	0	14	24	35	39	47	49	54	61
83	0	14	24	35	41	50	54	58	63
84	0	13	22	32	38	46	47	56	59
85	0	14	25	41	48	62	67	75	77
86	0	11	18	29	31	38	38	46	51
87	0	13	24	37	44	54	59	67	68
88	0	12	19	32	38	48	52	59	64
89	0	14	22	37	43	55	59	68	74
90	0	13	20	34	36	51	58	65	72
91	0	15	19	35	38	56	63	72	77
92	---	---	---	---	---	---	---	---	---
93	0	9	11	22	21	29	32	40	42
94	0	12	14	26	25	36	39	45	48
95	0	12	17	30	30	40	43	48	52
96	---	---	---	---	---	---	---	---	---

BODY WEIGHT GAIN (%)
MALES

DAYS WEEKS ANIMAL	RECOVERY								
	1	5	8	12	14	19	22	25	28
	1	1	2	2	2	3	4	4	4
GROUP 4 ()									
54	---	---	---	---	---	---	---	---	---
55	---	---	---	---	---	---	---	---	---
56	---	---	---	---	---	---	---	---	---
57	77	101	107	118	121	---	---	---	---
58	58	79	81	89	89	---	---	---	---
59	51	70	73	79	79	---	---	---	---
60	---	---	---	---	---	---	---	---	---
61	58	77	85	91	87	98	102	107	104
62	52	72	78	87	85	95	99	105	106
63	47	67	72	80	80	87	89	93	92
64	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
65	---	---	---	---	---	---	---	---	---
66	---	---	---	---	---	---	---	---	---
67	---	---	---	---	---	---	---	---	---
68	---	---	---	---	---	---	---	---	---
69	---	---	---	---	---	---	---	---	---
70	---	---	---	---	---	---	---	---	---
71	---	---	---	---	---	---	---	---	---
72	---	---	---	---	---	---	---	---	---
73	59	79	86	89	88	---	---	---	---
74	24	40	45	47	46	---	---	---	---
75	56	74	78	85	83	---	---	---	---
76	---	---	---	---	---	---	---	---	---
77	48	67	73	73	75	79	81	90	87
78	45	64	71	74	76	82	84	96	90
79	40	57	60	63	66	69	71	77	75
80	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
81	---	---	---	---	---	---	---	---	---
82	---	---	---	---	---	---	---	---	---
83	---	---	---	---	---	---	---	---	---
84	---	---	---	---	---	---	---	---	---
85	---	---	---	---	---	---	---	---	---
86	---	---	---	---	---	---	---	---	---
87	---	---	---	---	---	---	---	---	---
88	---	---	---	---	---	---	---	---	---
89	59	84	86	93	93	---	---	---	---
90	60	79	81	87	91	---	---	---	---
91	66	85	91	99	100	---	---	---	---
92	---	---	---	---	---	---	---	---	---
93	31	48	52	58	59	64	68	77	74
94	39	56	59	65	65	73	76	80	82
95	39	56	60	69	68	73	78	82	82
96	---	---	---	---	---	---	---	---	---

BODY WEIGHT GAIN (%)
FEMALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 1 (VEHICLE CONTROL)									
97	0	2	5	13	19	25	29	32	31
98	0	4	9	18	20	27	26	27	32
99	0	4	9	18	21	29	28	36	38
100	0	-1	8	16	10	22	23	27	36
101	0	4	14	21	29	35	36	47	47
102	0	3	5	9	19	23	25	28	29
103	0	1	6	10	9	16	23	27	26
104	0	8	12	19	24	31	30	39	41
105	0	7	8	20	20	27	28	37	39
106	0	7	11	21	23	30	31	37	40
107	0	5	8	17	16	24	20	31	35
108	---	---	---	---	---	---	---	---	---
109	0	-1	2	10	11	15	20	22	25
110	0	7	9	21	18	30	27	41	46
111	0	4	7	15	17	25	28	32	32
112	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
113	0	4	8	12	21	25	31	37	34
114	0	5	13	21	26	37	40	46	49
115	0	1	7	12	14	22	20	29	31
116	0	4	8	15	21	27	29	34	34
117	0	6	10	17	22	30	27	36	43
118	0	4	5	13	19	26	29	35	32
119	0	3	9	18	24	29	31	35	43
120	0	10	15	19	27	31	29	43	45
121	0	4	3	9	9	16	20	28	28
122	0	5	4	13	10	18	26	30	28
123	0	5	7	14	17	23	26	35	36
124	---	---	---	---	---	---	---	---	---
125	0	2	6	14	15	26	25	29	33
126	0	2	1	10	12	20	21	27	29
127	0	10	11	23	22	33	34	39	42
128	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
129	0	5	9	13	12	21	20	29	32
130	0	5	8	15	14	21	24	34	35
131	0	0	9	14	18	23	24	27	30
132	0	3	10	15	19	21	26	30	32
133	0	7	8	15	18	25	25	33	33
134	0	5	12	15	15	20	27	36	37
135	0	6	9	19	23	31	35	38	38
136	0	2	10	16	11	20	23	31	30
137	0	4	6	15	20	30	35	39	36
138	0	6	5	10	9	11	10	17	20
139	0	-1	3	11	11	21	25	28	26
140	---	---	---	---	---	---	---	---	---
141	0	6	10	21	21	30	28	32	34
142	0	3	4	14	11	19	20	28	28
143	0	5	9	17	17	26	25	36	36
144	---	---	---	---	---	---	---	---	---
GROUP 4 (									
145	0	5	8	16	17	22	20	30	32
146	0	7	9	16	20	29	27	37	38
147	0	3	3	13	21	28	31	34	34
148	0	1	5	15	20	28	29	36	35
149	0	1	10	17	17	25	29	30	35

BODY WEIGHT GAIN (%)
FEMALES

	RECOVERY								
DAYS	1	5	8	12	14	19	22	25	28
WEEKS	1	1	2	2	2	3	4	4	4
ANIMAL									
GROUP 1 (VEHICLE CONTROL)									
97	---	---	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---	---	---
101	---	---	---	---	---	---	---	---	---
102	---	---	---	---	---	---	---	---	---
103	---	---	---	---	---	---	---	---	---
104	---	---	---	---	---	---	---	---	---
105	27	41	41	44	54	---	---	---	---
106	27	41	44	47	54	---	---	---	---
107	20	31	38	41	44	---	---	---	---
108	---	---	---	---	---	---	---	---	---
109	13	29	31	34	35	36	39	41	45
110	28	45	52	56	58	61	63	66	72
111	21	36	38	42	42	45	49	51	51
112	---	---	---	---	---	---	---	---	---
GROUP 2 (TELOMER ALCOHOL)									
113	---	---	---	---	---	---	---	---	---
114	---	---	---	---	---	---	---	---	---
115	---	---	---	---	---	---	---	---	---
116	---	---	---	---	---	---	---	---	---
117	---	---	---	---	---	---	---	---	---
118	---	---	---	---	---	---	---	---	---
119	---	---	---	---	---	---	---	---	---
120	---	---	---	---	---	---	---	---	---
121	17	29	32	37	33	---	---	---	---
122	18	34	36	42	37	---	---	---	---
123	22	38	39	45	46	---	---	---	---
124	---	---	---	---	---	---	---	---	---
125	22	39	37	43	46	50	52	53	51
126	18	38	38	43	41	43	46	48	49
127	27	43	48	52	55	57	60	58	60
128	---	---	---	---	---	---	---	---	---
GROUP 3 (TELOMER ACRYLATE)									
129	---	---	---	---	---	---	---	---	---
130	---	---	---	---	---	---	---	---	---
131	---	---	---	---	---	---	---	---	---
132	---	---	---	---	---	---	---	---	---
133	---	---	---	---	---	---	---	---	---
134	---	---	---	---	---	---	---	---	---
135	---	---	---	---	---	---	---	---	---
136	---	---	---	---	---	---	---	---	---
137	28	48	50	57	55	---	---	---	---
138	6	19	19	27	26	---	---	---	---
139	15	36	36	45	42	---	---	---	---
140	---	---	---	---	---	---	---	---	---
141	23	37	38	43	45	51	55	53	51
142	15	32	35	41	36	43	43	46	46
143	21	36	39	46	46	51	51	52	52
144	---	---	---	---	---	---	---	---	---
GROUP 4 (									
145	---	---	---	---	---	---	---	---	---
146	---	---	---	---	---	---	---	---	---
147	---	---	---	---	---	---	---	---	---
148	---	---	---	---	---	---	---	---	---
149	---	---	---	---	---	---	---	---	---

BODY WEIGHT GAIN (%)
FEMALES

DAYS WEEKS ANIMAL	TREATMENT								
	1	5	8	12	15	19	22	25	28
	1	1	2	2	3	3	4	4	4
GROUP 4 (									
150	0	5	12	24	29	35	36	38	42
151	0	4	6	17	21	23	31	39	39
152	0	4	10	16	15	25	27	36	39
153	0	1	1	9	12	18	24	30	31
154	0	8	10	21	19	29	31	42	44
155	0	4	6	17	15	22	26	33	34
156	---	---	---	---	---	---	---	---	---
157	0	4	3	15	17	27	27	31	31
158	0	4	4	17	16	23	21	35	30
159	0	7	8	19	23	29	35	39	40
160	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
161	0	3	8	15	16	23	25	27	30
162	0	5	9	20	18	25	24	31	34
163	0	3	7	12	9	18	22	28	28
164	0	1	6	12	13	21	20	27	30
165	0	-1	6	15	22	29	34	36	40
166	0	-1	8	13	17	25	31	37	35
167	0	-2	-1	8	14	20	22	26	27
168	0	3	6	15	21	26	30	35	35
169	0	7	8	15	15	26	25	31	33
170	0	4	6	12	11	20	22	30	29
171	0	9	11	21	18	27	32	38	41
172	---	---	---	---	---	---	---	---	---
173	0	1	3	12	11	15	19	26	23
174	0	6	6	15	17	26	27	35	35
175	0	5	7	15	17	26	24	33	35
176	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
177	0	6	11	20	21	29	32	38	36
178	0	-1	5	12	10	16	16	20	21
179	0	5	8	12	6	13	17	21	23
180	0	-1	3	9	10	14	15	18	15
181	0	-2	2	5	7	10	9	11	11
182	0	5	6	12	18	23	22	28	30
183	0	0	7	14	12	17	22	25	22
184	0	1	9	16	12	21	24	26	29
185	0	9	7	17	17	31	30	32	27
186	0	7	7	17	19	25	24	26	28
187	0	1	7	15	13	19	24	28	29
188	---	---	---	---	---	---	---	---	---
189	0	1	3	12	11	17	18	21	23
190	0	4	6	15	14	24	27	32	37
191	0	4	2	9	8	12	10	16	16
192	---	---	---	---	---	---	---	---	---

BODY WEIGHT GAIN (%)
FEMALES

	RECOVERY								
DAYS	1	5	8	12	14	19	22	25	28
WEEKS	1	1	2	2	2	3	4	4	4
ANIMAL									
GROUP 4 ()									
150	---	---	---	---	---	---	---	---	---
151	---	---	---	---	---	---	---	---	---
152	---	---	---	---	---	---	---	---	---
153	20	40	44	51	49	---	---	---	---
154	30	45	49	54	53	---	---	---	---
155	23	40	44	46	44	---	---	---	---
156	---	---	---	---	---	---	---	---	---
157	23	35	40	42	41	39	44	50	46
158	22	36	32	37	46	48	49	51	48
159	30	38	38	44	43	47	51	55	56
160	---	---	---	---	---	---	---	---	---
GROUP 5 (PFHS)									
161	---	---	---	---	---	---	---	---	---
162	---	---	---	---	---	---	---	---	---
163	---	---	---	---	---	---	---	---	---
164	---	---	---	---	---	---	---	---	---
165	---	---	---	---	---	---	---	---	---
166	---	---	---	---	---	---	---	---	---
167	---	---	---	---	---	---	---	---	---
168	---	---	---	---	---	---	---	---	---
169	24	33	40	40	40	---	---	---	---
170	19	32	36	41	39	---	---	---	---
171	29	45	46	54	53	---	---	---	---
172	---	---	---	---	---	---	---	---	---
173	14	29	29	33	29	36	37	43	42
174	23	42	43	46	45	47	50	56	54
175	23	38	42	48	50	53	55	56	59
176	---	---	---	---	---	---	---	---	---
GROUP 6 (PFOS)									
177	---	---	---	---	---	---	---	---	---
178	---	---	---	---	---	---	---	---	---
179	---	---	---	---	---	---	---	---	---
180	---	---	---	---	---	---	---	---	---
181	---	---	---	---	---	---	---	---	---
182	---	---	---	---	---	---	---	---	---
183	---	---	---	---	---	---	---	---	---
184	---	---	---	---	---	---	---	---	---
185	17	34	35	40	38	---	---	---	---
186	16	32	36	37	37	---	---	---	---
187	17	32	36	42	42	---	---	---	---
188	---	---	---	---	---	---	---	---	---
189	11	23	28	31	34	37	36	37	38
190	25	38	41	45	45	52	50	52	55
191	7	17	21	26	28	33	31	33	34
192	---	---	---	---	---	---	---	---	---

FOOD CONSUMPTION (G/ANIMAL/DAY)
MALES

DAYS, WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
GROUP 1 (VEHICLE CONTROL)								
1	26	26	27	28	---	---	---	---
2	27	29	29	31	---	---	---	---
3	24	25	28	29	29	29	---	---
4	29	31	34	33	32	31	30	31
GROUP 2 (TELOMER ALCOHOL)								
5	28	29	30	31	---	---	---	---
6	28	30	29	31	---	---	---	---
7	24	25	27	28	27	27	---	---
8	26	29	30	30	29	29	28	29
GROUP 3 (TELOMER ACRYLATE)								
9	26	27	28	30	---	---	---	---
10	28	29	30	30	---	---	---	---
11	26	28	31	32	29	30	---	---
12	27	28	32	31	32	32	30	32
GROUP 4 ()								
13	27	29	29	30	---	---	---	---
14	27	28	28	29	---	---	---	---
15	25	29	33	34	33	32	---	---
16	27	29	32	31	31	30	30	31
GROUP 5 (PFHS)								
17	26	28	28	29	---	---	---	---
18	29	30	31	32	---	---	---	---
19	24	26	30	30	30	30	---	---
20	24	25	29	28	29	28	26	27
GROUP 6 (PFOS)								
21	28	29	28	29	---	---	---	---
22	28	30	30	31	---	---	---	---
23	27	30	34	36	33	33	---	---
24	26	27	29	29	28	27	27	28

FOOD CONSUMPTION (G/ANIMAL/DAY)
MALES

	RECOVERY
DAYS	22-28
WEEKS	4
CAGE	

GROUP 1 (VEHICLE CONTROL)

1	---
2	---
3	---
4	31

GROUP 2 (TELOMER ALCOHOL)

5	---
6	---
7	---
8	28

GROUP 3 (TELOMER ACRYLATE)

9	---
10	---
11	---
12	30

GROUP 4 ()

13	---
14	---
15	---
16	29

GROUP 5 (PFHS)

17	---
18	---
19	---
20	27

GROUP 6 (PFOS)

21	---
22	---
23	---
24	27

FOOD CONSUMPTION (G/ANIMAL/DAY)
FEMALES

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
GROUP 1 (VEHICLE CONTROL)								
25	18	20	21	22	---	---	---	---
26	20	21	22	23	---	---	---	---
27	20	21	23	25	25	24	---	---
28	19	21	24	25	25	24	22	24
GROUP 2 (TELOMER ALCOHOL)								
29	19	21	22	24	---	---	---	---
30	19	21	21	23	---	---	---	---
31	17	20	22	22	23	22	---	---
32	18	20	23	23	24	23	22	23
GROUP 3 (TELOMER ACRYLATE)								
33	18	19	20	22	---	---	---	---
34	21	22	22	24	---	---	---	---
35	18	20	22	21	23	22	---	---
36	19	21	23	23	24	23	22	22
GROUP 4								
37	19	20	21	23	---	---	---	---
38	19	21	22	23	---	---	---	---
39	20	22	23	24	25	24	---	---
40	19	22	23	23	23	22	20	21
GROUP 5 (PFHS)								
41	19	19	21	22	---	---	---	---
42	22	23	24	24	---	---	---	---
43	19	21	23	23	25	24	---	---
44	19	22	23	23	24	23	20	22
GROUP 6 (PFOS)								
45	22	20	20	20	---	---	---	---
46	18	19	19	19	---	---	---	---
47	17	19	19	19	21	20	---	---
48	19	20	21	20	21	21	19	19

FOOD CONSUMPTION (G/ANIMAL/DAY)
FEMALES

	RECOVERY

DAYS	22-28
WEEKS	4
CAGE	

GROUP 1 (VEHICLE CONTROL)

25	---
26	---
27	---
28	24

GROUP 2 (TELOMER ALCOHOL)

29	---
30	---
31	---
32	22

GROUP 3 (TELOMER ACRYLATE)

33	---
34	---
35	---
36	22

GROUP 4 ()

37	---
38	---
39	---
40	22

GROUP 5 (PFHS)

41	---
42	---
43	---
44	21

GROUP 6 (PFOS)

45	---
46	---
47	---
48	19

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
MALES

GROUP 1 (VEHICLE CONTROL)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8	8-15	15-22	22-28	1-8	8-14	14-19	19-22
	1/2	2/3	3/4	4	1/2	2	2/3	3/4
1	110	94	89	86	---	---	---	---
2	115	102	93	90	---	---	---	---
3	107	99	99	96	89	84	---	---
4	126	116	114	101	91	84	77	78

DAYS WEEKS CAGE	RECOVERY
	22-28
	4

1	---
2	---
3	---
4	75

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
MALES

GROUP 2 (TELOMER ALCOHOL)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8	8-15	15-22	22-28	1-8	8-14	14-19	19-22
	1/2	2/3	3/4	4	1/2	2	2/3	3/4
5	115	101	93	90	---	---	---	---
6	116	106	91	91	---	---	---	---
7	109	98	97	93	84	79	---	---
8	109	104	101	92	85	80	74	76

DAYS WEEKS CAGE	RECOVERY
	22-28
	4

5	---
6	---
7	---
8	72

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
MALES

GROUP 3 (TELOMER ACRYLATE)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
9	112	101	95	93	---	---	---	---
10	119	105	95	89	---	---	---	---
11	111	103	103	97	83	80	---	---
12	116	105	105	95	90	84	76	80

DAYS WEEKS CAGE	RECOVERY
	22-28 4
9	---
10	---
11	---
12	74

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
MALES

GROUP 4 ()

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8	8-15	15-22	22-28	1-8	8-14	14-19	19-22
	1/2	2/3	3/4	4	1/2	2	2/3	3/4
13	113	103	91	90	---	---	---	---
14	112	102	93	90	---	---	---	---
15	107	105	104	100	88	82	---	---
16	111	99	98	89	82	73	71	72

DAYS WEEKS CAGE	RECOVERY
	22-28
	4

13	---
14	---
15	---
16	67

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
MALES

GROUP 5 (PFHS)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8	8-15	15-22	22-28	1-8	8-14	14-19	19-22
	1/2	2/3	3/4	4	1/2	2	2/3	3/4
17	110	101	91	88	---	---	---	---
18	122	105	97	95	---	---	---	---
19	106	99	102	96	91	83	---	---
20	108	100	102	94	92	83	76	77

DAYS WEEKS CAGE	RECOVERY
	22-28
	4
17	---
18	---
19	---
20	73

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
MALES

GROUP 6 (PFOS)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8	8-15	15-22	22-28	1-8	8-14	14-19	19-22
	1/2	2/3	3/4	4	1/2	2	2/3	3/4
21	120	106	94	92	---	---	---	---
22	114	102	91	87	---	---	---	---
23	111	105	104	100	85	80	---	---
24	113	103	103	99	88	81	76	78

DAYS WEEKS CAGE	RECOVERY
	22-28
	4

21	---
22	---
23	---
24	72

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
FEMALES

GROUP 1 (VEHICLE CONTROL)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
25	106	104	98	101	---	---	---	---
26	105	102	97	94	---	---	---	---
27	107	103	104	104	102	95	---	---
28	107	107	112	109	107	95	86	92

DAYS WEEKS CAGE	RECOVERY
	22-28 4

25	---
26	---
27	---
28	91

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
FEMALES

GROUP 2 (TELOMER ALCOHOL)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
29	104	102	98	97	---	---	---	---
30	110	108	100	102	---	---	---	---
31	96	105	110	101	102	93	---	---
32	105	106	111	108	106	98	88	92

DAYS WEEKS CAGE	RECOVERY
	22-28 4

29	---
30	---
31	---
32	86

000181

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
FEMALES

GROUP 3 (TELOMER ACRYLATE)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
33	105	100	100	101	---	---	---	---
34	117	110	107	107	---	---	---	---
35	108	110	112	105	105	96	---	---
36	110	109	112	107	109	98	88	87

DAYS WEEKS CAGE	RECOVERY
	22-28 4

33	---
34	---
35	---
36	90

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
FEMALES

GROUP 4 ()

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
37	104	104	98	100	---	---	---	---
38	110	102	102	100	---	---	---	---
39	115	113	112	106	106	97	---	---
40	104	107	106	100	98	91	81	83

DAYS WEEKS CAGE	RECOVERY
	22-28 4
37	---
38	---
39	---
40	81

000183

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
FEMALES

GROUP 5 (PFHS)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8	8-15	15-22	22-28	1-8	8-14	14-19	19-22
	1/2	2/3	3/4	4	1/2	2	2/3	3/4
41	110	100	100	103	---	---	---	---
42	130	118	111	105	---	---	---	---
43	102	105	107	102	107	97	---	---
44	109	113	111	106	105	98	84	88

DAYS WEEKS CAGE	RECOVERY
	22-28
	4

41	---
42	---
43	---
44	84

RELATIVE FOOD CONSUMPTION
(G/KG BODY WEIGHT/DAY)
FEMALES

GROUP 6 (PFOS)

DAYS WEEKS CAGE	TREATMENT				RECOVERY			
	1-8 1/2	8-15 2/3	15-22 3/4	22-28 4	1-8 1/2	8-14 2	14-19 2/3	19-22 3/4
45	125	106	101	95	---	---	---	---
46	104	97	92	92	---	---	---	---
47	100	100	96	93	97	90	---	---
48	115	111	110	102	103	95	85	86

DAYS WEEKS CAGE	RECOVERY
	22-28 4

45	---
46	---
47	---
48	85

KEY TO MISSING VALUES AND REMARKS HAEMATOLOGY / CLINICAL BIOCHEMISTRY

AFTER 4 WEEKS

Animal 1, 2, 3, 4, 56
81, 84, 97, 98, 99,
114, 129, 145, 164,
177, 179, 180,

--- = EDTA sample clotted

Animal 1, 33, 55, 59,
65, 72, 77, 78, 79, 89,
132, 145, 162, 168,

--- = Citrate sample clotted

Animal 62, 174
Animal 129

--- = PTT in plasma not reproducible
--- = deviating curve noted for PTT in plasma

Animal 2, 17, 18, 19,
25, 36, 40, 49, 50,
66, 67, 71, 72, 74, 79,
87, 88, 89, 90

Serum sample showed haemolysis

Animal 46 and 59

--- = ALAT in serum not reproducible

AFTER 2 WEEKS RECOVERY

Animal 75, 169, 186

--- = Citrate sample clotted

AFTER 4 WEEKS RECOVERY

Animal 14, 29, 61, 78

--- = Citrate sample (partly) clotted

Animal 127

--- = ALAT in serum not reproducible

HAEMATOLOGY
AFTER 4 WEEKS
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
1	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---
5	7.52	9.7	0.423	56.3	1.290	22.9	12.3	1329
6	6.83	9.2	0.406	59.4	1.347	22.7	12.2	1182
7	7.25	9.6	0.415	57.2	1.324	23.1	12.2	1340
8	7.01	9.4	0.411	58.6	1.341	22.9	11.6	1085
9	6.85	8.9	0.403	58.8	1.299	22.1	12.4	1237
10	7.11	9.0	0.413	58.1	1.266	21.8	12.4	988
11	6.91	9.0	0.406	58.8	1.302	22.2	12.4	1187
13	6.97	8.6	0.390	56.0	1.234	22.1	13.4	1074
14	7.29	9.2	0.418	57.3	1.262	22.0	12.3	1189
15	6.80	8.7	0.389	57.2	1.279	22.4	12.5	1204

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
1	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	15.5	15.5
3	---	---	---	---	---	---	15.6	16.2
4	---	---	---	---	---	---	14.7	17.2
5	10.9	0.105	0.010	0.000	0.025	0.860	14.2	16.7
6	17.6	0.140	0.010	0.000	0.030	0.820	15.2	16.3
7	14.1	0.075	0.000	0.000	0.030	0.895	14.3	17.5
8	16.2	0.090	0.005	0.000	0.030	0.875	14.5	16.1
9	8.8	0.190	0.015	0.000	0.010	0.785	14.7	14.9
10	6.6	0.145	0.005	0.000	0.020	0.830	14.8	16.0
11	9.9	0.110	0.010	0.000	0.030	0.850	14.9	15.7
13	10.9	0.145	0.000	0.000	0.025	0.830	14.3	15.7
14	9.3	0.120	0.010	0.000	0.030	0.840	16.2	14.8
15	9.0	0.120	0.005	0.000	0.025	0.850	14.7	16.4

HAEMATOLOGY
AFTER 4 WEEKS
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							PLATELETS G/L
	RBC T/L	HB mmol/l	HCT l/l	MCV fl	MCH fmol	MCHC mmol/l	RDW %	
17	6.19	8.3	0.386	62.4	1.341	21.5	10.7	842
18	6.36	8.5	0.371	58.3	1.336	22.9	11.5	928
19	6.21	8.4	0.368	59.3	1.353	22.8	12.4	929
20	6.49	8.2	0.377	58.1	1.263	21.8	11.2	913
21	6.70	9.0	0.403	60.1	1.343	22.3	12.0	1111
22	6.76	8.9	0.391	57.8	1.317	22.8	12.2	1216
23	7.09	9.2	0.405	57.1	1.298	22.7	11.1	992
24	6.93	9.2	0.407	58.7	1.328	22.6	12.4	1047
25	6.83	8.9	0.399	58.4	1.303	22.3	12.5	1119
26	6.93	9.1	0.411	59.3	1.313	22.1	12.7	897
27	7.02	8.9	0.404	57.5	1.268	22.0	11.7	984
29	7.21	9.5	0.425	58.9	1.318	22.4	12.7	1051
30	6.51	8.7	0.389	59.8	1.336	22.4	13.0	1140
31	6.80	8.6	0.391	57.5	1.265	22.0	11.7	1184

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							PTT SEC
	WBC G/L	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	
17	10.1	0.085	0.000	0.000	0.015	0.900	15.8	16.0
18	7.2	0.085	0.025	0.000	0.015	0.875	14.8	14.9
19	6.4	0.190	0.005	0.000	0.015	0.790	15.6	15.4
20	7.3	0.155	0.015	0.000	0.040	0.790	14.5	16.4
21	10.4	0.105	0.000	0.000	0.015	0.880	14.4	15.8
22	12.3	0.115	0.015	0.000	0.040	0.830	14.5	16.9
23	8.6	0.120	0.005	0.000	0.020	0.855	15.0	14.6
24	10.9	0.080	0.010	0.000	0.010	0.900	15.4	16.6
25	10.9	0.130	0.015	0.000	0.025	0.830	13.9	15.5
26	11.7	0.105	0.040	0.000	0.005	0.850	15.3	16.5
27	10.5	0.100	0.000	0.000	0.035	0.865	14.8	16.2
29	8.6	0.225	0.010	0.000	0.040	0.725	15.7	17.1
30	12.5	0.130	0.015	0.000	0.015	0.840	15.3	15.9
31	11.9	0.130	0.005	0.000	0.015	0.850	14.5	15.8

HAEMATOLOGY
AFTER 4 WEEKS
MALES
GROUP 3 (TELOMER ACRYLATE)

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
33	6.12	8.2	0.367	60.0	1.340	22.3	12.2	1244
34	6.50	8.5	0.382	58.8	1.308	22.3	11.5	957
35	6.36	8.0	0.372	58.5	1.258	21.5	11.5	1063
36	6.43	8.2	0.380	59.1	1.275	21.6	11.5	930
37	6.76	9.0	0.397	58.7	1.331	22.7	12.7	1388
38	6.83	9.2	0.402	58.9	1.347	22.9	12.3	1354
39	6.55	8.5	0.372	56.8	1.298	22.8	12.5	1191
40	7.16	9.4	0.409	57.1	1.313	23.0	11.6	1114
41	6.49	8.7	0.387	59.6	1.341	22.5	13.1	1099
42	6.34	8.3	0.374	59.0	1.309	22.2	12.4	1137
43	6.83	9.0	0.409	59.9	1.318	22.0	11.8	944
45	6.73	8.9	0.386	57.4	1.322	23.1	12.1	1268
46	6.56	8.9	0.390	59.5	1.357	22.8	12.1	904
47	6.82	9.0	0.403	59.1	1.320	22.3	13.4	1022

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
33	11.8	0.170	0.005	0.000	0.025	0.800	---	---
34	9.9	0.155	0.010	0.000	0.020	0.815	15.6	15.5
35	9.1	0.080	0.000	0.000	0.015	0.905	15.0	17.4
36	11.2	0.140	0.015	0.000	0.020	0.825	15.3	23.8
37	13.4	0.100	0.005	0.000	0.020	0.875	13.9	17.1
38	9.4	0.065	0.005	0.000	0.010	0.920	14.3	16.5
39	9.6	0.090	0.020	0.000	0.020	0.870	14.7	18.7
40	9.3	0.080	0.005	0.000	0.020	0.895	15.6	15.5
41	11.2	0.095	0.005	0.000	0.015	0.885	15.1	16.2
42	11.8	0.090	0.000	0.000	0.025	0.885	13.9	15.9
43	8.9	0.120	0.005	0.000	0.020	0.855	15.5	16.7
45	13.8	0.145	0.005	0.000	0.020	0.830	15.5	15.3
46	6.7	0.155	0.005	0.000	0.045	0.795	14.4	16.1
47	6.8	0.150	0.010	0.000	0.000	0.840	14.8	17.8

HAEMATOLOGY
AFTER 4 WEEKS
MALES
GROUP 4 ()

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RW %	PLATELETS G/l
49	7.07	8.7	0.406	57.4	1.231	21.4	11.7	1063
50	6.54	8.2	0.371	56.7	1.254	22.1	11.5	1149
51	6.25	7.6	0.358	57.3	1.216	21.2	11.7	1030
52	6.62	8.5	0.387	58.5	1.284	22.0	11.7	1072
53	6.65	8.7	0.384	57.7	1.308	22.7	11.9	1462
54	7.18	9.6	0.429	59.7	1.337	22.4	11.7	874
55	7.13	9.4	0.418	58.6	1.318	22.5	12.1	876
56	---	---	---	---	---	---	---	---
57	6.42	8.7	0.386	60.1	1.355	22.5	12.2	1084
58	6.48	8.7	0.389	60.0	1.343	22.4	11.9	1084
59	7.21	9.2	0.418	58.0	1.276	22.0	12.5	860
61	6.82	8.9	0.402	58.9	1.305	22.1	12.4	1049
62	6.94	9.4	0.418	60.2	1.354	22.5	12.1	932
63	6.90	8.8	0.395	57.2	1.275	22.3	12.1	1121

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PIT SEC
49	12.4	0.100	0.010	0.000	0.025	0.865	14.9	15.7
50	15.2	0.105	0.005	0.000	0.020	0.870	14.9	15.2
51	14.3	0.070	0.000	0.000	0.020	0.910	13.7	16.0
52	14.5	0.085	0.010	0.000	0.010	0.895	15.4	19.0
53	10.6	0.065	0.010	0.000	0.015	0.910	15.2	17.4
54	8.2	0.055	0.005	0.000	0.020	0.920	14.1	19.5
55	10.8	0.110	0.010	0.000	0.040	0.840	---	---
56	---	---	---	---	---	---	13.8	26.8
57	14.1	0.095	0.000	0.000	0.035	0.870	13.8	16.7
58	10.4	0.100	0.010	0.000	0.015	0.875	13.8	16.7
59	12.2	0.075	0.010	0.000	0.030	0.885	---	---
61	9.6	0.055	0.005	0.000	0.020	0.920	14.8	19.5
62	11.7	0.140	0.005	0.000	0.035	0.820	14.1	---
63	7.6	0.070	0.015	0.000	0.015	0.900	14.5	18.1

HAEMATOLOGY
AFTER 4 WEEKS
MALES
GROUP 5 (PFHS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
65	6.14	8.0	0.357	58.1	1.303	22.4	11.8	1017
66	5.71	7.5	0.347	60.8	1.313	21.6	11.1	929
67	5.55	7.6	0.347	62.5	1.369	21.9	13.1	946
68	6.50	8.1	0.365	56.2	1.246	22.2	11.0	969
69	7.04	9.1	0.395	56.1	1.293	23.0	11.1	1074
70	7.06	9.0	0.409	57.9	1.275	22.0	11.6	977
71	7.47	9.7	0.442	59.2	1.299	21.9	12.2	1011
72	6.40	8.4	0.371	58.0	1.312	22.6	11.8	873
73	6.64	8.5	0.388	58.4	1.280	21.9	12.6	997
74	6.72	8.7	0.388	57.7	1.295	22.4	12.3	943
75	6.65	8.5	0.380	57.1	1.278	22.4	12.0	1092
77	6.35	8.5	0.378	59.5	1.339	22.5	12.8	1031
78	6.95	8.6	0.395	56.8	1.237	21.8	12.2	221
79	6.80	9.0	0.404	59.4	1.324	22.3	12.8	105

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PIT SEC
65	7.3	0.175	0.005	0.000	0.030	0.790	---	---
66	8.1	0.255	0.020	0.000	0.020	0.705	13.9	15.9
67	11.1	0.185	0.010	0.000	0.015	0.790	14.4	15.8
68	9.2	0.125	0.000	0.000	0.035	0.840	14.1	15.8
69	7.1	0.085	0.000	0.000	0.020	0.895	14.1	17.1
70	13.6	0.170	0.010	0.000	0.025	0.795	13.5	17.4
71	14.2	0.140	0.000	0.000	0.040	0.820	14.7	18.1
72	12.1	0.115	0.010	0.000	0.025	0.850	---	---
73	13.9	0.220	0.005	0.000	0.050	0.725	14.7	17.3
74	8.7	0.100	0.020	0.000	0.025	0.855	13.7	17.4
75	6.4	0.130	0.000	0.000	0.025	0.845	13.7	16.7
77	11.0	0.105	0.015	0.000	0.040	0.840	---	---
78	6.0	0.160	0.005	0.000	0.005	0.830	---	---
79	6.5	0.105	0.015	0.000	0.005	0.875	---	---

HAEMATOLOGY
AFTER 4 WEEKS
MALES
GROUP 6 (PFOS)

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
81	---	---	---	---	---	---	---	---
82	6.44	8.7	0.377	58.5	1.351	23.1	11.3	1120
83	6.20	8.2	0.361	58.2	1.323	22.7	11.5	1150
84	---	---	---	---	---	---	---	---
85	6.36	8.9	0.395	62.1	1.399	22.5	11.2	1031
86	7.37	9.4	0.429	58.2	1.275	21.9	12.7	935
87	6.95	9.6	0.414	59.6	1.381	23.2	11.3	1109
88	6.15	8.3	0.367	59.7	1.350	22.6	13.7	1239
89	6.44	9.0	0.395	61.3	1.398	22.8	11.5	1019
90	6.48	8.7	0.382	59.0	1.343	22.8	12.3	1114
91	6.55	8.9	0.390	59.5	1.359	22.8	12.2	1111
93	7.13	8.9	0.389	54.6	1.248	22.9	12.7	1127
94	7.02	9.1	0.409	58.3	1.296	22.2	11.8	1071
95	6.82	9.1	0.398	58.4	1.334	22.9	11.5	1082

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
81	---	---	---	---	---	---	14.1	20.8
82	7.5	0.110	0.000	0.000	0.025	0.865	14.8	15.2
83	10.2	0.095	0.010	0.000	0.020	0.875	15.6	20.0
84	---	---	---	---	---	---	15.4	15.0
85	11.3	0.075	0.015	0.000	0.035	0.875	14.7	16.9
86	10.8	0.165	0.005	0.000	0.010	0.820	14.4	16.1
87	12.3	0.075	0.005	0.000	0.015	0.905	14.5	19.2
88	8.4	0.190	0.005	0.000	0.025	0.780	14.1	15.9
89	13.2	0.080	0.005	0.000	0.015	0.900	---	---
90	14.2	0.145	0.005	0.000	0.035	0.815	15.6	17.1
91	10.4	0.075	0.000	0.000	0.010	0.915	14.7	16.4
93	7.4	0.095	0.005	0.000	0.030	0.870	14.6	18.0
94	10.2	0.115	0.000	0.000	0.025	0.860	14.5	17.7
95	12.9	0.145	0.000	0.000	0.035	0.820	13.8	15.7

HAEMATOLOGY
AFTER 4 WEEKS
FEMALES
GROUP 1 (VEHICLE CONTROL)

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
97	---	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---	---
100	6.50	8.9	0.376	57.8	1.369	23.7	10.9	1271
101	6.66	9.5	0.392	58.9	1.426	24.2	11.2	1114
102	6.80	9.0	0.369	54.3	1.324	24.4	11.5	1324
103	6.82	9.2	0.379	55.6	1.349	24.3	11.1	1050
104	7.02	9.6	0.389	55.4	1.368	24.7	11.6	1302
105	6.78	8.9	0.363	53.5	1.313	24.5	11.5	1335
106	6.79	9.2	0.389	57.3	1.355	23.7	10.9	1078
107	6.68	8.7	0.369	55.2	1.302	23.6	11.9	1214
109	6.54	8.7	0.356	54.4	1.330	24.4	11.4	1019
110	6.63	9.0	0.392	59.1	1.357	23.0	11.6	996
111	6.73	9.1	0.380	56.5	1.352	23.9	10.5	1121

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
97	---	---	---	---	---	---	14.2	14.2
98	---	---	---	---	---	---	13.9	17.7
99	---	---	---	---	---	---	13.9	16.1
100	7.0	0.080	0.015	0.000	0.020	0.885	14.3	18.2
101	11.1	0.060	0.000	0.000	0.040	0.900	16.5	17.0
102	7.0	0.070	0.010	0.000	0.045	0.875	17.3	14.1
103	9.8	0.045	0.005	0.000	0.010	0.940	15.6	17.5
104	9.5	0.070	0.015	0.000	0.020	0.895	15.5	16.3
105	9.0	0.060	0.010	0.000	0.015	0.915	16.0	17.0
106	6.3	0.090	0.005	0.000	0.020	0.885	15.3	16.1
107	4.9	0.130	0.025	0.000	0.040	0.805	15.9	14.1
109	5.2	0.075	0.010	0.000	0.025	0.890	16.0	15.5
110	5.9	0.095	0.010	0.000	0.025	0.870	15.1	14.6
111	5.5	0.125	0.000	0.000	0.020	0.855	15.4	14.7

HAEMATOLOGY
AFTER 4 WEEKS
FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
113	5.44	7.2	0.312	57.4	1.324	23.1	10.8	1041
114	---	---	---	---	---	---	---	---
115	5.59	7.7	0.331	59.2	1.377	23.3	10.8	1114
116	6.52	8.7	0.376	57.7	1.334	23.1	11.2	970
117	6.28	8.9	0.362	57.6	1.417	24.6	11.2	1134
118	6.76	9.2	0.372	55.0	1.361	24.7	11.2	1463
119	6.51	9.0	0.365	56.1	1.382	24.7	10.7	1275
120	6.21	8.6	0.353	56.8	1.385	24.4	11.2	1262
121	6.00	8.3	0.340	56.7	1.383	24.4	11.0	1283
122	6.61	8.6	0.356	53.9	1.301	24.2	11.8	1097
123	6.29	8.2	0.348	55.3	1.304	23.6	11.6	1016
125	6.50	8.7	0.363	55.8	1.338	24.0	12.1	1165
126	6.55	8.8	0.369	56.3	1.344	23.8	11.9	1095
127	6.29	8.7	0.367	58.3	1.383	23.7	10.7	920

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PIT SEC
113	8.9	0.135	0.000	0.000	0.000	0.865	13.8	16.2
114	---	---	---	---	---	---	14.6	16.4
115	6.9	0.110	0.020	0.000	0.035	0.835	14.4	14.5
116	8.8	0.040	0.000	0.000	0.010	0.950	14.1	15.2
117	5.6	0.175	0.005	0.000	0.025	0.795	15.3	15.5
118	8.5	0.060	0.005	0.000	0.040	0.895	15.6	16.4
119	6.8	0.105	0.005	0.000	0.010	0.880	15.8	15.0
120	8.3	0.160	0.005	0.000	0.025	0.810	15.3	15.1
121	9.8	0.075	0.005	0.000	0.025	0.895	15.1	13.5
122	4.2	0.115	0.000	0.000	0.015	0.870	15.2	15.0
123	8.6	0.140	0.000	0.000	0.020	0.840	14.7	14.9
125	7.8	0.065	0.000	0.000	0.025	0.910	15.8	13.8
126	5.4	0.085	0.005	0.000	0.025	0.885	15.3	14.6
127	8.2	0.070	0.000	0.000	0.010	0.920	15.6	14.2

HAEMATOLOGY
AFTER 4 WEEKS
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
129	---	---	---	---	---	---	---	---
130	7.23	9.4	0.408	56.4	1.300	23.0	11.3	1136
131	5.98	7.5	0.327	54.7	1.254	22.9	12.0	1004
132	6.30	8.1	0.360	57.1	1.286	22.5	11.0	1089
133	6.69	8.9	0.372	55.6	1.330	23.9	11.5	1082
134	6.36	8.9	0.370	58.2	1.399	24.1	10.9	1383
135	6.82	9.6	0.388	56.9	1.408	24.7	10.7	1304
136	6.48	8.7	0.359	55.4	1.343	24.2	10.8	1180
137	6.54	9.0	0.379	58.0	1.376	23.7	10.5	1062
138	6.70	8.8	0.362	54.0	1.313	24.3	12.2	1247
139	6.90	8.8	0.373	54.1	1.275	23.6	12.6	1068
141	6.83	8.9	0.366	53.6	1.303	24.3	11.5	1317
142	6.86	9.0	0.378	55.1	1.312	23.8	11.6	1040
143	6.22	8.6	0.363	58.4	1.383	23.7	11.1	1029

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
129	---	---	---	---	---	---	14.7	---
130	5.3	0.130	0.005	0.000	0.025	0.840	13.8	16.0
131	6.4	0.195	0.005	0.000	0.015	0.785	13.7	16.3
132	6.8	0.070	0.000	0.000	0.020	0.910	---	---
133	5.7	0.085	0.000	0.000	0.015	0.900	14.4	17.1
134	8.2	0.110	0.000	0.000	0.005	0.885	15.6	15.5
135	6.6	0.110	0.015	0.000	0.015	0.860	15.9	16.4
136	5.4	0.075	0.005	0.000	0.010	0.910	15.9	16.0
137	8.2	0.095	0.030	0.000	0.030	0.845	16.0	16.3
138	6.4	0.090	0.020	0.000	0.025	0.865	14.9	14.7
139	4.2	0.095	0.015	0.000	0.000	0.890	15.4	14.7
141	13.2	0.120	0.005	0.000	0.030	0.845	15.3	14.7
142	7.9	0.070	0.015	0.000	0.015	0.900	15.5	14.6
143	4.7	0.175	0.005	0.000	0.015	0.805	14.1	15.6

HAEMATOLOGY
AFTER 4 WEEKS
FEMALES
GROUP 4 ()

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
145	---	---	---	---	---	---	---	---
146	6.23	8.9	0.380	61.0	1.429	23.4	11.5	1194
147	6.64	9.0	0.388	58.4	1.355	23.2	11.5	1032
148	6.45	8.7	0.363	56.3	1.349	24.0	11.5	1102
149	6.66	9.6	0.392	58.9	1.441	24.5	11.3	1172
150	6.07	8.4	0.347	57.2	1.384	24.2	11.3	1276
151	6.86	9.4	0.385	56.1	1.370	24.4	11.4	1134
152	6.64	9.2	0.383	57.7	1.386	24.0	10.5	1136
153	6.79	8.7	0.378	55.7	1.281	23.0	11.9	1137
154	6.99	9.4	0.382	54.6	1.345	24.6	11.4	1177
155	6.22	8.6	0.363	58.4	1.383	23.7	11.0	1169
157	7.33	9.4	0.402	54.8	1.282	23.4	11.4	1176
158	6.86	8.9	0.375	54.7	1.297	23.7	11.3	1332
159	6.33	9.0	0.368	58.1	1.422	24.5	11.0	1165

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
145	---	---	---	---	---	---	---	---
146	10.1	0.075	0.005	0.000	0.020	0.900	14.3	16.8
147	7.1	0.080	0.005	0.000	0.015	0.900	14.8	16.6
148	9.1	0.075	0.005	0.000	0.030	0.890	13.5	16.4
149	8.3	0.090	0.010	0.000	0.010	0.890	14.5	17.5
150	4.9	0.065	0.020	0.000	0.025	0.890	14.4	17.5
151	9.8	0.075	0.005	0.000	0.035	0.885	14.7	18.2
152	6.5	0.080	0.010	0.000	0.025	0.885	14.9	17.6
153	5.8	0.145	0.015	0.000	0.025	0.815	14.6	16.2
154	7.8	0.105	0.015	0.000	0.030	0.850	14.4	15.5
155	4.7	0.125	0.015	0.000	0.040	0.820	13.8	15.7
157	8.9	0.070	0.020	0.000	0.025	0.885	15.5	16.6
158	9.0	0.070	0.005	0.000	0.020	0.905	14.4	17.4
159	6.9	0.080	0.015	0.000	0.015	0.890	14.6	18.7

HAEMATOLOGY
AFTER 4 WEEKS
FEMALES
GROUP 5 (PFHS)

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
161	5.92	8.4	0.356	60.1	1.419	23.6	10.9	1112
162	6.55	9.0	0.375	57.3	1.374	24.0	10.9	314
163	6.70	8.7	0.366	54.6	1.299	23.8	11.8	975
164	---	---	---	---	---	---	---	---
165	6.23	8.6	0.353	56.7	1.380	24.4	11.7	1192
166	6.58	9.0	0.374	56.8	1.368	24.1	11.0	1178
167	6.65	8.8	0.360	54.1	1.323	24.4	11.9	1044
168	6.36	9.1	0.374	58.8	1.431	24.3	10.6	1120
169	6.07	8.5	0.333	54.9	1.400	25.5	11.3	1053
170	6.42	8.4	0.342	53.3	1.308	24.6	10.9	1066
171	6.50	9.1	0.381	58.6	1.400	23.9	10.7	1157
173	6.63	8.5	0.350	52.8	1.282	24.3	11.6	1019
174	5.94	8.7	0.359	60.4	1.343	24.8	10.6	938
175	6.02	7.8	0.325	54.0	1.296	24.0	12.7	1281

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
161	6.3	0.065	0.005	0.000	0.020	0.910	13.7	15.8
162	4.8	0.050	0.005	0.000	0.010	0.935	---	---
163	5.2	0.065	0.015	0.000	0.005	0.915	14.0	15.7
164	---	---	---	---	---	---	14.3	15.1
165	7.2	0.040	0.010	0.000	0.045	0.905	14.1	16.4
166	10.8	0.040	0.010	0.000	0.035	0.915	13.9	17.9
167	5.8	0.090	0.020	0.000	0.035	0.855	15.8	22.1
168	9.1	0.065	0.005	0.000	0.015	0.915	---	---
169	4.6	0.115	0.005	0.000	0.035	0.845	15.9	16.0
170	6.7	0.110	0.010	0.000	0.015	0.865	14.4	15.5
171	5.5	0.045	0.005	0.000	0.020	0.930	14.2	18.1
173	4.5	0.095	0.020	0.000	0.025	0.860	14.4	15.9
174	4.1	0.155	0.005	0.000	0.035	0.805	15.1	---
175	7.2	0.100	0.005	0.000	0.020	0.875	14.0	16.8

HAEMATOLOGY
AFTER 4 WEEKS
FEMALES
GROUP 6 (PFOS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
177	---	---	---	---	---	---	---	---
178	6.69	8.6	0.360	53.8	1.286	23.9	11.7	988
179	---	---	---	---	---	---	---	---
180	---	---	---	---	---	---	---	---
181	6.54	8.9	0.369	56.4	1.361	24.1	10.7	1068
182	6.30	8.6	0.356	56.5	1.365	24.2	10.9	1220
183	7.23	9.6	0.399	55.2	1.328	24.1	11.2	1027
184	6.51	9.0	0.369	56.7	1.382	24.4	10.4	1208
185	6.38	8.5	0.354	55.5	1.332	24.0	12.0	1229
186	5.98	8.0	0.334	55.9	1.338	24.0	12.0	1187
187	6.66	8.9	0.371	55.7	1.336	24.0	11.3	1069
189	6.07	8.1	0.338	55.7	1.334	24.0	11.1	1423
190	5.95	8.6	0.361	60.7	1.445	23.8	10.7	1033
191	6.21	8.2	0.333	53.6	1.320	24.6	11.3	1024

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
177	---	---	---	---	---	---	13.3	13.6
178	4.5	0.055	0.000	0.000	0.010	0.935	13.9	12.9
179	---	---	---	---	---	---	14.8	16.7
180	---	---	---	---	---	---	14.7	14.6
181	7.4	0.075	0.005	0.000	0.015	0.905	14.2	16.8
182	11.8	0.080	0.005	0.000	0.020	0.895	14.7	17.7
183	11.1	0.040	0.005	0.000	0.025	0.930	14.3	20.0
184	8.3	0.085	0.005	0.000	0.025	0.885	14.3	20.5
185	7.2	0.090	0.000	0.000	0.010	0.900	14.8	15.0
186	6.6	0.120	0.010	0.000	0.030	0.840	14.4	16.2
187	6.7	0.080	0.010	0.000	0.025	0.885	14.7	15.8
189	7.9	0.070	0.000	0.000	0.020	0.910	14.1	16.4
190	8.3	0.080	0.010	0.000	0.025	0.885	14.7	16.0
191	12.1	0.075	0.005	0.000	0.015	0.905	14.5	18.1

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 1 (VEHICLE CONTROL)

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
9	7.05	8.7	0.406	57.6	1.234	21.4	14.1	1293
10	7.41	9.2	0.428	57.8	1.242	21.5	14.5	1086
11	7.23	9.4	0.417	57.7	1.300	22.5	13.6	1152

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
9	8.1	0.150	0.010	0.000	0.030	0.810	14.6	17.4
10	6.9	0.120	0.015	0.000	0.025	0.840	14.3	15.3
11	10.5	0.065	0.015	0.000	0.025	0.895	15.0	15.9

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
25	6.79	8.8	0.395	58.2	1.296	22.3	14.2	1198
26	7.06	8.9	0.407	57.6	1.261	21.9	13.9	1015
27	7.28	8.9	0.409	56.2	1.223	21.8	13.0	1030

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
25	14.9	0.075	0.005	0.000	0.015	0.905	15.3	15.0
26	8.6	0.210	0.000	0.000	0.030	0.760	15.6	16.1
27	12.5	0.095	0.010	0.000	0.020	0.875	14.7	14.8

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 3 (TELOMER ACRYLATE)

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
41	6.83	8.7	0.396	58.0	1.274	22.0	13.8	1239
42	6.80	8.3	0.386	56.8	1.221	21.5	13.8	1323
43	7.28	9.2	0.421	57.8	1.264	21.9	12.5	995

HAEMATOLOGY PARAMETERS								
ANIMAL NUMBER	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
41	12.1	0.090	0.010	0.000	0.025	0.875	15.3	17.1
42	13.9	0.040	0.000	0.000	0.020	0.940	14.1	15.8
43	10.2	0.135	0.005	0.000	0.030	0.830	15.2	15.2

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 4 ()

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
57	6.76	8.7	0.389	57.5	1.287	22.4	12.9	1099
58	6.94	8.8	0.400	57.6	1.268	22.0	12.3	1116
59	7.29	8.9	0.416	57.1	1.221	21.4	14.8	1024

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PIT SEC
57	14.0	0.080	0.000	0.000	0.030	0.890	15.0	16.2
58	12.2	0.050	0.005	0.000	0.020	0.925	14.8	15.3
59	10.5	0.045	0.005	0.000	0.020	0.930	13.9	13.6

000202

**HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 5 (PFHS)**

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
73	6.86	8.5	0.388	56.6	1.239	21.9	14.0	1028
74	6.84	8.5	0.395	57.7	1.243	21.5	15.0	1071
75	7.21	8.7	0.394	54.6	1.207	22.1	14.2	1059

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
73	11.1	0.200	0.015	0.000	0.025	0.760	15.5	15.3
74	6.4	0.075	0.010	0.000	0.010	0.905	14.9	15.0
75	7.9	0.125	0.010	0.000	0.020	0.845	---	---

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 6 (PFOS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
89	6.76	8.9	0.401	59.3	1.317	22.2	14.0	1068
90	7.15	8.9	0.412	57.6	1.245	21.6	12.9	1026
91	7.13	8.9	0.411	57.6	1.248	21.7	12.5	1140

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
89	12.7	0.125	0.000	0.000	0.020	0.855	15.6	16.3
90	12.8	0.155	0.005	0.000	0.020	0.820	15.9	14.6
91	9.4	0.130	0.000	0.000	0.015	0.855	14.9	13.2

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
105	7.02	8.8	0.399	56.8	1.254	22.1	15.8	1410
106	7.11	9.2	0.414	58.2	1.294	22.2	12.9	1083
107	6.93	8.9	0.398	57.4	1.284	22.4	14.7	1204

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
105	9.2	0.055	0.000	0.000	0.025	0.920	16.2	17.7
106	7.1	0.115	0.010	0.000	0.015	0.860	15.5	14.7
107	5.7	0.055	0.005	0.000	0.010	0.930	16.3	14.0

000205

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
121	6.26	8.6	0.378	60.4	1.374	22.8	14.8	1283
122	6.63	8.4	0.382	57.6	1.267	22.0	16.4	1024
123	6.52	8.3	0.373	57.2	1.273	22.3	14.4	1045

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
121	10.9	0.095	0.000	0.000	0.035	0.870	14.6	14.6
122	5.6	0.080	0.005	0.000	0.025	0.890	14.9	14.1
123	9.6	0.055	0.015	0.000	0.015	0.915	15.3	14.6

000206

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
137	6.49	8.9	0.402	61.9	1.371	22.1	15.9	1053
138	6.88	8.7	0.387	56.3	1.265	22.5	13.9	1205
139	6.49	8.4	0.379	58.4	1.294	22.2	16.3	939

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
137	11.0	0.060	0.005	0.000	0.030	0.905	16.1	16.3
138	6.0	0.050	0.005	0.000	0.005	0.940	15.8	14.8
139	4.8	0.085	0.000	0.000	0.015	0.900	15.0	14.2

000207

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 4 ()

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
153	6.59	8.8	0.397	60.2	1.335	22.2	17.2	1060
154	7.27	9.4	0.408	56.1	1.293	23.0	14.0	1171
155	6.27	8.7	0.384	61.2	1.388	22.7	14.7	1102

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
153	7.9	0.075	0.005	0.000	0.045	0.875	14.8	15.7
154	6.9	0.050	0.015	0.000	0.035	0.900	15.1	14.0
155	5.3	0.115	0.010	0.000	0.020	0.855	14.5	14.6

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 5 (PFHS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
169	6.22	8.2	0.357	57.4	1.318	23.0	14.0	1010
170	6.70	8.4	0.376	56.1	1.254	22.3	15.8	828
171	6.91	9.2	0.416	60.2	1.331	22.1	13.9	723

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
169	5.9	0.085	0.005	0.000	0.015	0.895	---	---
170	7.7	0.035	0.020	0.000	0.000	0.945	14.7	16.6
171	6.1	0.030	0.000	0.000	0.015	0.955	14.9	14.8

000209

HAEMATOLOGY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 6 (PFOS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
185	6.48	8.5	0.382	59.0	1.312	22.3	15.8	1206
186	6.23	8.2	0.374	60.0	1.316	21.9	15.8	769
187	6.88	8.9	0.405	58.9	1.294	22.0	15.6	1127

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
185	5.3	0.115	0.000	0.000	0.025	0.860	15.4	13.7
186	9.6	0.100	0.000	0.000	0.020	0.880	---	---
187	5.4	0.085	0.005	0.000	0.035	0.875	15.5	13.7

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
13	7.52	8.9	0.391	52.0	1.184	22.8	14.4	1062
14	7.75	9.8	0.424	54.7	1.265	23.1	14.1	981
15	6.79	8.7	0.373	54.9	1.281	23.3	14.9	1204

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
13	13.0	0.055	0.010	0.000	0.075	0.860	12.7	16.1
14	12.5	0.160	0.010	0.000	0.055	0.775	---	---
15	11.2	0.095	0.000	0.000	0.025	0.880	13.5	15.9

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
29	7.16	9.1	0.396	55.3	1.271	23.0	12.7	917
30	6.88	9.2	0.390	56.7	1.337	23.6	12.6	1097
31	6.98	8.9	0.386	55.3	1.275	23.1	13.5	1062

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
29	10.7	0.120	0.010	0.000	0.075	0.795	---	---
30	10.5	0.065	0.000	0.000	0.040	0.895	13.3	14.6
31	15.8	0.100	0.000	0.000	0.050	0.850	12.7	15.7

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	MCV fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
45	6.84	8.9	0.372	54.4	1.301	23.9	13.9	1244
46	6.70	8.9	0.386	57.6	1.328	23.1	13.8	960
47	7.01	9.4	0.395	56.3	1.341	23.8	13.3	1024

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PIT SEC
45	15.6	0.085	0.005	0.000	0.025	0.885	13.3	16.7
46	8.6	0.125	0.015	0.000	0.085	0.775	13.6	16.6
47	8.2	0.060	0.010	0.000	0.030	0.900	13.2	17.0

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 4 ()

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
61	6.84	9.2	0.379	55.4	1.345	24.3	13.4	1232
62	7.18	9.5	0.408	56.8	1.323	23.3	12.6	1206
63	7.01	9.0	0.388	55.3	1.284	23.2	12.7	1100

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PIT SEC
61	10.7	0.055	0.005	0.000	0.030	0.910	---	---
62	9.2	0.055	0.010	0.000	0.015	0.920	13.0	15.9
63	8.2	0.070	0.000	0.000	0.015	0.915	14.6	17.0

000214

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 5 (PFHS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
77	6.82	8.9	0.384	56.3	1.305	23.2	13.2	1000
78	6.87	8.7	0.381	55.5	1.266	22.8	13.8	884
79	6.97	9.4	0.406	58.2	1.349	23.2	13.8	1013

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
77	9.5	0.060	0.005	0.000	0.020	0.915	14.5	14.9
78	7.1	0.065	0.010	0.000	0.035	0.890	---	---
79	6.5	0.065	0.005	0.000	0.020	0.910	13.8	15.5

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 6 (PFOS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
93	7.14	8.9	0.383	53.6	1.246	23.2	14.7	1083
94	7.20	9.2	0.406	56.4	1.278	22.7	13.2	1047
95	6.63	8.8	0.378	57.0	1.327	23.3	13.2	1101

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT. SEC	PTT SEC
93	7.5	0.040	0.005	0.000	0.030	0.925	14.2	13.2
94	12.7	0.065	0.010	0.000	0.005	0.920	13.9	16.9
95	13.5	0.130	0.005	0.000	0.045	0.820	13.8	13.7

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
109	6.76	9.2	0.380	56.2	1.361	24.2	12.2	911
110	7.09	9.4	0.423	59.7	1.326	22.2	13.7	992
111	6.76	9.2	0.389	57.5	1.361	23.7	12.5	1013

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
109	5.9	0.020	0.000	0.000	0.020	0.960	13.0	14.6
110	6.7	0.080	0.005	0.000	0.015	0.900	12.0	16.9
111	5.5	0.060	0.020	0.000	0.010	0.910	11.8	15.6

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
125	6.95	9.4	0.400	57.6	1.353	23.5	13.1	1088
126	6.85	9.5	0.403	58.8	1.387	23.6	14.0	882
127	6.77	9.2	0.404	59.7	1.359	22.8	13.4	969

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
125	8.7	0.055	0.005	0.000	0.035	0.905	11.9	14.1
126	9.9	0.075	0.005	0.000	0.025	0.895	12.2	14.7
127	7.8	0.080	0.000	0.000	0.020	0.900	12.5	15.0

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
141	6.87	8.9	0.381	55.5	1.295	23.4	13.3	1093
142	7.01	9.2	0.398	56.8	1.312	23.1	13.1	841
143	6.48	8.8	0.388	59.9	1.358	22.7	13.4	961

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
141	10.7	0.025	0.010	0.000	0.035	0.930	12.2	14.6
142	8.9	0.055	0.010	0.000	0.010	0.925	11.9	16.7
143	3.5	0.035	0.010	0.000	0.010	0.945	11.5	15.9

HAEMATOTOLOGY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 4 ()

ANIMAL NUMBER	HAEMATOTOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
157	7.25	9.2	0.402	55.4	1.269	22.9	12.9	1028
158	6.88	8.9	0.386	56.1	1.294	23.1	12.5	1045
159	6.85	9.1	0.391	57.1	1.328	23.3	12.3	969

ANIMAL NUMBER	HAEMATOTOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
157	6.3	0.025	0.020	0.000	0.030	0.925	12.5	14.6
158	6.5	0.095	0.020	0.000	0.030	0.855	11.5	14.6
159	5.8	0.110	0.020	0.000	0.030	0.840	12.6	15.7

000220

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 5 (PFHS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
173	7.08	9.0	0.388	54.8	1.271	23.2	13.7	939
174	6.73	9.2	0.411	61.1	1.367	22.4	12.1	874
175	6.59	8.6	0.368	55.8	1.305	23.4	14.1	1120

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. 1	EO. 1	BASO. 1	MONO. 1	LYMPH. 1	PT SEC	PTT SEC
173	6.9	0.095	0.010	0.000	0.040	0.855	11.8	15.2
174	4.5	0.065	0.005	0.000	0.050	0.880	12.0	15.5
175	9.1	0.065	0.005	0.000	0.015	0.915	11.4	15.1

000221

HAEMATOLOGY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 6 (PFOS)

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	RBC T/l	HB mmol/l	HCT l/l	mcv fl	MCH fmol	MCHC mmol/l	RDW %	PLATELETS G/l
189	6.49	8.7	0.370	57.0	1.341	23.5	11.9	1062
190	6.73	9.2	0.413	61.4	1.367	22.3	13.3	906
191	6.45	8.1	0.355	55.0	1.256	22.8	13.5	1013

ANIMAL NUMBER	HAEMATOLOGY PARAMETERS							
	WBC G/l	SEG. l	EO. l	BASO. l	MONO. l	LYMPH. l	PT SEC	PTT SEC
189	11.3	0.085	0.000	0.000	0.015	0.900	12.0	13.6
190	7.4	0.065	0.015	0.000	0.025	0.895	12.7	15.5
191	7.4	0.035	0.000	0.000	0.010	0.955	12.0	15.5

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
1	0.88	3.21	3	1.58	0.75	35	6.63	6.5
2	0.69	2.55	1	1.94	0.80	29	5.67	5.9
3	0.79	2.34	2	2.63	0.63	37	6.01	8.8
4	0.60	3.28	1	2.36	1.27	31	5.65	5.8
5	0.66	3.30	3	1.47	0.54	32	7.14	6.5
6	0.51	2.77	3	2.14	0.83	29	7.50	5.9
7	0.67	2.76	3	2.07	1.12	29	6.31	5.5
8	0.50	2.16	2	1.70	0.59	28	5.56	6.5
9	0.58	2.42	3	2.47	0.53	38	6.70	8.1
10	0.70	2.33	3	2.53	0.88	38	6.04	8.6
11	0.56	3.13	2	1.53	0.61	33	6.93	7.7
13	0.54	2.92	2	2.04	1.05	38	6.14	7.5
14	0.53	2.86	2	1.85	0.52	30	4.94	5.9
15	0.80	3.10	3	1.64	1.07	39	7.31	6.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
1	54.4	29.0	25.4	1.1	12.54	2.76	143.5	4.70
2	56.6	29.6	27.0	1.1	7.29	3.22	143.8	5.32
3	57.5	30.4	27.1	1.1	6.03	2.79	143.1	4.50
4	57.8	30.4	27.4	1.1	7.45	2.63	143.1	4.72
5	59.9	30.4	29.5	1.0	8.56	2.86	144.8	4.50
6	59.1	28.9	30.2	1.0	6.65	2.71	142.3	4.72
7	62.5	30.2	32.3	0.9	6.99	2.85	143.3	4.70
8	57.5	28.5	29.0	1.0	8.54	3.04	142.8	4.69
9	55.2	28.5	26.7	1.1	6.11	2.73	141.6	5.10
10	50.8	27.7	23.1	1.2	10.02	2.70	143.1	4.70
11	53.5	30.0	23.5	1.3	7.26	2.78	143.3	5.07
13	55.9	29.2	26.7	1.1	7.58	2.80	141.3	4.67
14	57.6	28.6	29.0	1.0	7.29	3.00	139.8	5.56
15	56.6	29.2	27.4	1.1	6.26	2.78	140.6	4.96

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
1	2.46	104
2	2.68	101
3	2.53	101
4	2.55	102
5	2.63	98
6	2.58	97
7	2.64	99
8	2.48	100
9	2.47	100
10	2.43	100
11	2.47	99
13	2.49	102
14	2.58	95
15	2.49	97

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
17	0.56	1.85	2	1.37	0.87	29	6.37	6.2
18	0.47	2.26	2	1.67	1.23	31	6.47	6.5
19	0.71	2.48	2	1.34	1.20	31	7.16	7.4
20	0.83	3.02	2	0.99	0.30	34	5.68	8.1
21	0.52	2.20	2	1.01	0.37	26	8.71	6.7
22	0.62	2.63	2	1.11	0.80	29	7.19	6.1
23	0.70	2.63	2	0.86	0.47	31	6.58	6.1
24	0.65	2.38	2	1.02	0.39	30	6.85	8.3
25	0.56	2.46	2	2.58	0.54	32	6.17	6.7
26	0.48	2.64	3	1.14	0.43	30	4.50	8.3
27	0.64	2.96	3	1.31	0.56	34	6.68	8.3
29	0.51	2.68	3	1.48	0.56	29	6.33	5.5
30	0.60	3.14	2	1.13	0.60	29	5.58	5.9
31	0.66	3.41	2	0.92	0.49	24	6.49	7.2

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
17	53.0	28.0	25.0	1.1	6.46	2.60	143.9	4.25
18	53.8	29.3	24.5	1.2	8.92	3.04	143.3	4.65
19	54.3	31.5	22.8	1.4	7.59	2.93	143.1	4.40
20	54.9	30.8	24.1	1.3	6.81	2.69	143.3	4.55
21	54.2	27.3	26.9	1.0	8.12	2.64	143.4	5.07
22	53.0	28.8	24.2	1.2	7.04	2.90	142.6	4.64
23	52.6	27.6	25.0	1.1	6.03	2.69	142.1	4.49
24	52.6	29.5	23.1	1.3	6.84	2.76	141.4	5.14
25	53.1	27.8	25.3	1.1	8.21	2.65	142.3	4.60
26	53.1	28.2	24.9	1.1	11.53	2.71	143.5	4.34
27	50.5	27.7	22.8	1.2	7.94	2.72	141.8	4.78
29	58.0	29.3	28.7	1.0	9.19	2.80	144.8	4.69
30	51.9	29.2	22.7	1.3	12.49	2.61	142.5	4.24
31	49.1	27.4	21.7	1.3	6.01	2.76	141.9	4.51

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
17	2.58	101
18	2.48	100
19	2.55	102
20	2.50	103
21	2.49	94
22	2.47	99
23	2.43	101
24	2.44	99
25	2.42	101
26	2.42	102
27	2.37	101
29	2.59	100
30	2.43	101
31	2.44	100

000224

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
MALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	ALAT (GPT) ukat/l	ASAT (GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
33	0.58	3.74	2	1.28	1.72	31	6.30	5.7
34	0.85	2.81	2	2.72	0.71	29	5.63	6.0
35	0.64	2.72	1	1.19	0.62	34	6.80	7.2
36	0.62	2.46	2	0.89	0.44	33	5.77	7.2
37	0.52	2.00	2	1.13	0.66	28	6.56	5.7
38	0.45	2.31	2	1.91	1.34	29	6.66	7.5
39	0.81	2.85	3	1.13	0.46	30	6.95	6.2
40	0.44	1.87	3	1.10	0.68	32	7.48	8.5
41	0.48	2.46	2	1.64	1.13	31	7.21	5.7
42	0.50	2.27	2	1.40	0.56	31	6.26	8.1
43	0.73	2.62	2	1.51	0.43	30	5.24	6.2
45	0.72	2.98	3	1.72	0.51	34	5.48	7.7
46	---	2.48	2	1.02	0.43	31	5.86	6.5
47	0.57	2.52	2	1.33	0.57	27	5.22	4.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
33	57.8	33.4	24.4	1.4	8.10	2.88	143.7	4.81
34	58.1	30.0	28.1	1.1	7.91	2.95	143.5	3.92
35	51.9	29.6	22.3	1.3	8.31	2.80	143.2	4.81
36	52.6	29.5	23.1	1.3	8.85	3.10	144.5	4.32
37	51.9	30.2	21.7	1.4	7.99	3.04	143.1	4.95
38	56.0	29.9	26.1	1.1	6.99	2.69	144.0	4.85
39	54.2	28.4	25.8	1.1	5.23	2.90	142.6	4.66
40	55.2	29.0	26.2	1.1	8.66	3.22	143.7	5.14
41	55.4	29.2	26.2	1.1	7.93	2.92	143.6	5.30
42	50.9	26.9	24.0	1.1	6.91	2.79	143.0	4.69
43	54.0	29.5	24.5	1.2	6.98	2.55	142.4	4.58
45	52.7	29.2	23.5	1.2	6.06	2.90	141.7	4.81
46	47.6	25.8	21.8	1.2	9.35	3.01	143.0	5.13
47	56.3	29.4	26.9	1.1	8.53	2.61	142.6	4.09

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
33	2.57	101
34	2.53	100
35	2.38	103
36	2.62	102
37	2.48	102
38	2.55	100
39	2.48	100
40	2.57	102
41	2.54	104
42	2.44	104
43	2.47	102
45	2.50	101
46	2.44	103
47	2.46	101

000225

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
MALES
GROUP 4 ()

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
49	0.68	2.49	2	1.62	0.56	35	7.70	7.8
50	0.47	2.41	2	1.73	0.58	34	6.58	6.7
51	0.63	2.09	2	1.75	1.22	29	8.07	6.4
52	0.52	2.30	3	1.76	0.85	31	7.05	6.8
53	0.69	2.85	2	1.65	0.51	29	5.86	5.7
54	0.53	2.16	2	1.39	0.50	37	7.41	5.6
55	0.73	2.43	2	1.33	0.73	34	7.04	7.1
56	0.62	2.19	3	2.56	0.84	32	7.39	6.9
57	0.67	2.48	3	2.37	0.66	42	7.38	8.6
58	0.49	2.58	2	2.23	0.75	32	5.75	6.8
59	---	2.52	3	1.54	0.60	35	6.29	6.2
61	0.45	2.28	2	1.15	0.45	38	6.57	6.6
62	0.38	1.67	2	1.98	0.50	40	4.62	9.0
63	0.52	1.85	2	1.51	0.40	31	4.58	6.2

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
49	57.3	31.0	26.3	1.2	8.01	2.56	143.8	4.67
50	51.9	30.2	21.7	1.4	7.08	2.84	143.1	4.81
51	57.0	31.0	26.0	1.2	8.24	2.67	141.3	4.46
52	56.7	32.5	24.2	1.3	10.97	2.59	142.6	4.51
53	54.2	28.8	25.4	1.1	7.10	2.83	143.2	4.70
54	52.8	28.9	23.9	1.2	9.03	2.72	143.4	4.60
55	53.5	30.4	23.1	1.3	8.06	2.54	142.4	4.31
56	53.2	28.6	24.6	1.2	8.42	2.72	143.0	4.65
57	51.0	29.3	21.7	1.4	8.47	3.19	142.5	4.50
58	56.4	31.1	25.3	1.2	7.39	2.40	142.7	4.21
59	53.2	28.6	24.6	1.2	6.63	2.58	143.3	4.15
61	53.3	30.5	22.8	1.3	6.76	2.76	143.0	4.33
62	51.8	28.3	23.5	1.2	7.03	3.15	143.8	4.85
63	50.7	28.2	22.5	1.3	8.81	2.45	144.3	4.29

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
49	2.45	101
50	2.43	104
51	2.52	100
52	2.55	98
53	2.48	102
54	2.41	102
55	2.45	102
56	2.36	101
57	2.54	103
58	2.57	101
59	2.37	99
61	2.47	95
62	2.56	104
63	2.45	102

000226

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
MALES
GROUP 5 (PFHS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
65	0.56	1.95	2	1.22	0.83	32	9.60	7.7
66	0.68	2.21	1	1.20	0.46	31	7.63	7.0
67	0.59	2.08	2	1.12	0.59	30	6.33	7.9
68	0.63	2.30	1	0.91	0.37	32	7.08	7.5
69	0.50	2.69	2	0.87	0.29	37	7.01	8.4
70	0.57	2.44	2	0.83	0.30	32	8.35	6.2
71	0.60	2.73	2	0.83	0.42	36	6.43	5.9
72	0.66	2.57	2	1.15	0.51	34	7.18	9.0
73	0.61	2.42	2	0.78	0.33	34	5.22	6.9
74	0.65	2.43	3	1.19	0.51	36	6.65	8.2
75	0.59	2.01	2	1.23	0.40	35	7.43	7.3
77	0.56	2.27	2	0.92	0.36	42	4.36	8.3
78	1.53	2.74	2	0.70	0.23	50	4.03	11.8
79	0.64	2.60	2	0.68	0.37	32	6.75	6.0

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
65	56.0	28.2	27.8	1.0	7.03	3.16	143.1	4.44
66	55.2	31.1	24.1	1.3	10.00	2.75	143.1	4.04
67	51.6	31.2	20.4	1.5	8.63	3.05	143.9	4.56
68	50.1	29.9	20.2	1.5	8.60	2.65	143.1	4.23
69	54.0	30.1	23.9	1.3	9.07	3.00	144.3	4.48
70	52.3	29.4	22.9	1.3	10.97	3.05	142.9	4.62
71	58.3	32.9	25.4	1.3	10.10	3.74	144.6	5.64
72	59.1	32.5	26.6	1.2	7.64	2.85	142.2	4.35
73	51.0	30.4	20.6	1.5	8.94	3.15	144.5	4.17
74	53.0	29.7	23.3	1.3	9.14	3.23	143.0	5.41
75	55.3	31.5	23.8	1.3	11.09	2.88	143.4	4.39
77	54.0	28.6	25.4	1.1	9.33	2.49	142.4	4.24
78	50.4	29.8	20.6	1.4	7.62	3.11	142.1	4.30
79	51.1	29.7	21.4	1.4	12.50	3.12	143.7	4.78

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
65	2.66	100
66	2.45	101
67	2.56	103
68	2.40	101
69	2.54	105
70	2.51	102
71	2.64	105
72	2.53	104
73	2.54	104
74	2.56	102
75	2.44	98
77	2.40	103
78	2.49	103
79	2.48	106

000227

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
MALES
GROUP 6 (PFOS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
81	0.60	1.88	3	1.99	0.47	30	5.84	6.5
82	0.58	2.80	1	1.09	0.91	28	7.19	6.5
83	0.49	1.70	2	0.81	0.34	38	8.85	8.8
84	0.67	2.05	2	1.11	0.37	30	5.70	7.1
85	0.49	1.67	3	1.77	0.45	29	4.92	7.0
86	0.62	2.88	3	0.88	0.52	30	8.51	6.1
87	0.60	2.06	2	1.13	0.48	37	6.72	10.7
88	0.54	2.61	3	0.96	0.48	30	4.50	8.1
89	0.62	2.78	3	1.16	0.43	33	6.45	7.9
90	0.66	2.28	3	1.49	0.41	29	6.00	7.4
91	0.56	3.05	3	1.19	0.79	37	5.13	9.0
93	0.62	2.40	2	0.40	0.27	30	6.20	7.7
94	0.65	2.34	2	0.88	0.39	28	6.92	6.9
95	0.61	2.68	2	0.91	0.42	32	6.35	6.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
81	53.0	31.2	21.8	1.4	5.41	2.60	143.4	4.39
82	54.9	30.3	24.6	1.2	8.58	2.95	143.9	4.99
83	54.9	31.4	23.5	1.3	9.87	3.11	143.1	5.27
84	55.9	29.5	26.4	1.1	4.56	2.95	142.7	5.00
85	53.1	30.1	23.0	1.3	5.55	2.91	144.6	3.98
86	54.7	29.2	25.5	1.1	8.46	2.80	143.3	4.55
87	57.5	29.4	28.1	1.0	7.00	3.07	143.3	4.39
88	51.6	28.2	23.4	1.2	7.24	2.83	143.2	4.67
89	53.0	28.5	24.5	1.2	7.98	3.01	143.2	4.46
90	53.7	28.4	25.3	1.1	6.12	3.37	142.0	4.75
91	56.4	27.7	28.7	1.0	8.68	3.16	141.8	4.59
93	49.7	28.0	21.7	1.3	8.14	2.67	141.9	4.72
94	53.6	28.1	25.5	1.1	7.23	2.94	142.5	5.15
95	55.0	29.7	25.3	1.2	6.78	3.03	141.6	4.34

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
81	2.59	101
82	2.47	100
83	2.58	102
84	2.52	106
85	2.58	105
86	2.66	101
87	2.57	106
88	2.44	102
89	2.50	104
90	2.57	106
91	2.52	100
93	2.35	103
94	2.53	106
95	2.45	99

000228

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
FEMALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
97	0.69	2.74	4	2.74	0.81	39	5.58	10.1
98	0.39	1.94	3	1.68	0.33	37	5.92	6.1
99	0.44	2.47	2	2.44	0.71	35	5.98	6.2
100	0.69	3.09	2	1.81	0.40	40	6.07	6.4
101	0.61	2.94	4	1.97	0.80	42	5.96	11.0
102	0.53	2.97	3	1.87	0.51	41	5.69	11.6
103	0.47	2.75	3	1.75	0.44	38	5.65	7.1
104	0.52	2.70	2	2.44	0.62	46	6.20	8.6
105	0.65	2.39	2	1.68	0.48	38	5.66	9.4
106	0.40	2.35	3	2.86	0.88	39	7.58	8.8
107	0.46	2.86	2	1.92	0.37	44	6.41	8.3
109	0.33	2.26	3	2.45	0.68	42	5.67	7.9
110	0.64	2.93	2	2.47	0.69	40	6.42	6.7
111	0.46	2.22	3	2.81	0.74	40	5.95	8.6

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
97	63.1	32.0	31.1	1.0	3.33	2.87	142.4	4.85
98	67.9	35.1	32.8	1.1	4.34	2.50	144.1	3.41
99	61.3	32.2	29.1	1.1	5.17	2.67	146.1	3.96
100	67.4	34.1	33.3	1.0	5.53	2.61	139.8	4.59
101	67.1	34.4	32.7	1.1	4.09	2.68	143.7	4.03
102	61.5	33.4	28.1	1.2	4.41	2.93	142.1	4.78
103	70.1	36.4	33.7	1.1	3.91	2.27	141.6	4.08
104	70.9	34.9	36.0	1.0	5.50	2.52	141.7	4.18
105	67.3	34.0	33.3	1.0	4.21	2.87	141.0	4.13
106	65.5	34.6	30.9	1.1	3.87	2.68	141.4	4.09
107	64.8	32.6	32.2	1.0	4.50	2.50	142.0	3.77
109	60.8	32.1	28.7	1.1	4.79	2.12	141.4	3.91
110	69.8	36.1	33.7	1.1	4.35	2.37	142.7	3.87
111	64.7	34.2	30.5	1.1	4.39	2.49	141.1	4.21

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
97	2.72	103
98	2.60	101
99	2.59	100
100	2.47	98
101	2.66	93
102	2.52	98
103	2.59	98
104	2.58	96
105	2.59	93
106	2.66	94
107	2.45	96
109	2.37	97
110	2.52	96
111	2.58	96

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
113	0.60	1.59	3	2.41	0.47	33	5.30	7.4
114	0.48	2.06	3	2.66	0.52	34	5.86	7.1
115	0.56	2.28	3	2.22	1.07	36	5.63	6.9
116	0.43	2.22	3	2.56	0.48	44	6.82	10.1
117	0.39	1.98	2	1.70	0.47	35	6.08	7.2
118	0.47	3.45	3	2.14	0.60	42	6.00	11.7
119	0.66	3.15	3	2.86	0.69	40	5.66	9.1
120	0.35	2.12	2	2.14	0.46	36	5.90	8.6
121	0.51	2.34	2	2.24	0.52	41	7.40	9.5
122	0.38	2.91	2	2.15	0.60	39	5.79	7.4
123	0.39	2.15	2	1.46	0.42	36	5.70	6.3
125	0.37	2.76	2	2.57	0.63	37	5.76	8.5
126	0.45	2.40	2	1.85	0.31	39	5.38	8.6
127	0.47	1.75	2	2.69	0.69	44	5.29	8.7

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
113	66.6	34.2	32.4	1.1	2.57	2.57	141.5	4.20
114	66.1	30.8	35.3	0.9	4.21	2.69	142.5	4.43
115	68.2	34.1	34.1	1.0	3.54	2.43	143.3	4.08
116	65.6	34.0	31.6	1.1	3.67	2.63	143.1	3.91
117	61.3	32.5	28.8	1.1	4.13	2.28	143.0	3.79
118	67.0	35.0	32.0	1.1	3.19	2.70	142.2	4.79
119	67.9	33.7	34.2	1.0	5.23	2.69	140.9	4.55
120	63.6	33.6	30.0	1.1	4.08	2.71	142.5	4.14
121	59.6	32.5	27.1	1.2	5.43	2.60	143.2	4.44
122	68.8	37.0	31.8	1.2	5.30	2.39	143.5	4.19
123	64.6	34.6	30.0	1.2	3.19	2.48	142.0	3.79
125	63.3	34.2	29.1	1.2	2.78	2.57	142.4	4.04
126	63.2	33.9	29.3	1.2	4.25	2.41	142.7	4.10
127	61.3	32.9	28.4	1.2	5.05	2.20	143.7	3.49

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
113	2.66	102
114	2.60	99
115	2.67	102
116	2.63	99
117	2.50	100
118	2.57	101
119	2.63	97
120	2.60	96
121	2.57	96
122	2.65	98
123	2.57	96
125	2.65	98
126	2.54	97
127	2.51	99

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
129	0.30	1.66	2	1.74	0.51	32	5.27	5.5
130	0.57	2.18	3	1.83	0.49	37	5.23	8.4
131	0.47	2.08	2	1.76	0.67	34	6.67	7.0
132	0.49	1.97	2	2.50	0.56	37	5.78	9.4
133	0.84	2.32	3	2.88	0.74	37	6.32	10.4
134	0.76	2.15	3	2.53	0.81	38	5.83	9.7
135	0.66	2.60	3	2.17	0.80	44	5.62	9.5
136	0.60	2.45	3	1.68	0.62	38	6.25	8.5
137	0.43	1.99	2	1.41	0.41	45	5.83	11.4
138	0.44	2.82	2	2.03	0.60	40	6.89	8.4
139	0.47	1.73	3	1.99	0.53	40	6.20	7.3
141	0.55	2.47	3	2.14	0.38	41	6.08	11.3
142	0.58	2.12	3	2.18	0.40	38	5.98	7.0
143	0.51	2.82	3	2.39	0.59	43	7.96	9.6

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
129	64.4	32.3	32.1	1.0	3.01	2.43	143.8	3.81
130	66.2	34.0	32.2	1.1	4.48	2.58	143.2	4.28
131	68.0	35.3	32.7	1.1	3.02	2.40	143.1	3.64
132	62.0	33.5	28.5	1.2	5.49	2.73	142.7	3.97
133	69.5	34.8	34.7	1.0	3.20	2.41	142.8	3.89
134	62.8	32.0	30.8	1.0	5.05	2.72	140.9	4.31
135	65.6	33.5	32.1	1.0	5.59	2.69	140.9	4.41
136	66.7	34.5	32.2	1.1	3.32	2.38	143.4	4.04
137	60.2	31.2	29.0	1.1	5.91	2.29	142.6	4.44
138	65.8	35.0	30.8	1.1	5.72	2.45	144.3	3.63
139	64.2	36.2	28.0	1.3	3.94	2.14	143.0	4.01
141	66.9	33.8	33.1	1.0	6.27	2.64	142.0	4.59
142	66.4	35.5	30.9	1.1	3.43	2.55	143.1	4.02
143	66.8	36.4	30.4	1.2	4.90	2.10	140.8	4.56

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
129	2.60	99
130	2.60	99
131	2.54	100
132	2.57	99
133	2.72	98
134	2.55	96
135	2.64	96
136	2.61	96
137	2.52	100
138	2.60	98
139	2.65	96
141	2.63	102
142	2.64	95
143	2.54	100

000231

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
FEMALES
GROUP 4 ()

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
145	0.41	2.21	2	1.73	0.65	37	5.98	6.7
146	0.26	2.15	3	2.25	0.53	42	6.02	8.2
147	0.49	2.27	3	2.61	0.46	41	5.37	8.5
148	0.57	1.80	2	2.38	0.56	34	5.79	7.1
149	0.44	1.74	3	2.20	0.73	36	6.92	9.8
150	0.61	2.67	5	2.70	0.47	42	5.40	10.6
151	0.56	2.34	4	2.80	0.87	43	6.00	9.9
152	0.55	2.21	4	2.08	0.44	45	5.98	10.6
153	0.49	2.67	2	2.04	0.56	43	5.78	8.9
154	0.47	2.18	2	2.55	0.56	37	6.69	5.5
155	0.54	2.64	2	2.14	0.42	43	6.21	10.9
157	0.49	2.99	3	2.83	0.45	44	5.68	9.2
158	0.68	1.97	3	2.05	0.48	40	5.39	8.4
159	0.74	2.31	3	2.09	0.62	46	6.74	11.3

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
145	67.8	35.0	32.8	1.1	3.53	2.18	143.7	3.82
146	67.5	33.0	34.5	1.0	5.95	2.34	143.0	4.06
147	64.8	30.1	34.7	0.9	4.82	2.30	141.9	4.45
148	61.7	32.0	29.7	1.1	4.31	2.46	140.4	3.91
149	67.7	34.5	33.2	1.0	3.45	2.60	142.7	4.47
150	67.2	34.1	33.1	1.0	3.68	2.61	142.0	4.31
151	65.3	34.7	30.6	1.1	3.07	2.90	141.6	4.28
152	70.3	37.6	32.7	1.1	3.66	2.29	143.4	3.82
153	70.7	38.3	32.4	1.2	3.72	2.25	141.9	4.30
154	60.9	32.9	28.0	1.2	5.74	2.33	141.9	4.24
155	65.0	32.4	32.6	1.0	4.54	2.47	143.2	4.46
157	67.6	32.7	34.9	0.9	4.17	2.28	140.6	4.37
158	67.0	33.6	33.4	1.0	5.22	2.50	141.5	3.93
159	63.3	32.8	30.5	1.1	4.36	2.30	140.8	4.30

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
145	2.57	100
146	2.63	103
147	2.52	99
148	2.58	98
149	2.64	95
150	2.63	98
151	2.66	98
152	2.64	97
153	2.60	101
154	2.57	99
155	2.55	102
157	2.58	100
158	2.68	100
159	2.50	99

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
FEMALES
GROUP 5 (PFHS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST. T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
161	0.52	1.77	3	1.93	1.00	38	6.34	7.7
162	0.50	3.54	3	2.16	0.52	40	5.01	7.2
163	0.78	2.18	2	1.64	0.48	38	4.93	9.6
164	0.53	1.61	3	1.80	0.32	35	6.21	7.9
165	0.57	2.01	3	2.23	0.55	35	5.64	7.8
166	0.49	3.77	2	1.76	0.45	37	5.33	7.6
167	0.57	2.27	3	1.46	0.49	39	6.02	9.6
168	0.62	2.86	2	1.94	0.55	45	5.96	9.1
169	0.65	2.49	2	1.59	0.59	44	5.77	8.5
170	0.59	1.75	2	2.06	0.44	40	5.92	8.2
171	0.60	1.61	2	2.16	0.44	42	7.44	7.8
173	0.40	2.79	2	1.32	0.38	44	6.18	8.6
174	0.62	2.88	2	1.66	0.33	44	6.23	9.2
175	0.53	2.73	3	1.68	0.53	42	7.30	9.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
161	74.6	35.6	39.0	0.9	3.89	2.16	141.3	3.90
162	66.1	32.4	33.7	1.0	6.82	2.28	141.8	3.86
163	71.1	35.0	36.1	1.0	4.63	2.42	141.5	3.90
164	66.5	34.7	31.8	1.1	3.95	2.32	142.2	4.06
165	63.9	33.3	30.6	1.1	3.02	2.81	141.9	4.19
166	60.5	31.3	29.2	1.1	4.31	2.79	143.1	4.49
167	63.1	33.8	29.3	1.2	3.49	2.64	141.9	3.89
168	66.2	33.9	32.3	1.0	4.11	2.56	142.3	4.34
169	63.2	32.2	31.0	1.0	5.07	2.39	140.8	4.14
170	62.4	33.2	29.2	1.1	3.03	2.21	142.7	3.70
171	70.0	35.8	34.2	1.0	3.41	2.35	142.8	3.91
173	64.5	33.8	30.7	1.1	2.49	2.47	141.0	4.53
174	60.1	31.3	28.8	1.1	5.06	2.36	141.1	4.47
175	63.5	35.4	28.1	1.3	3.54	2.22	141.0	3.79

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
161	2.70	104
162	2.57	101
163	2.62	98
164	2.53	102
165	2.61	99
166	2.54	99
167	2.53	103
168	2.55	101
169	2.55	104
170	2.52	105
171	2.64	98
173	2.52	104
174	2.50	102
175	2.51	103

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS
FEMALES
GROUP 6 (PFOS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
177	0.56	2.04	2	2.56	0.60	41	5.31	11.3
178	0.42	2.09	2	1.46	0.30	35	5.90	8.6
179	0.72	2.36	3	2.29	0.38	38	4.83	7.9
180	0.42	2.48	4	2.14	0.52	47	5.02	12.6
181	0.38	2.45	3	1.71	0.58	36	5.85	9.1
182	0.63	1.85	3	2.48	0.82	41	6.81	11.1
183	0.78	2.32	4	2.19	0.63	43	4.80	9.8
184	0.48	1.52	3	1.97	0.63	49	5.38	11.6
185	0.51	2.59	3	1.96	0.58	44	5.12	9.3
186	0.67	2.95	3	2.00	0.38	39	5.93	9.8
187	0.45	2.59	2	1.46	0.33	41	6.39	8.2
189	0.57	2.39	2	2.47	0.65	42	7.96	10.3
190	0.61	2.77	2	2.06	0.77	37	7.71	8.2
191	1.67	2.01	3	1.83	0.39	45	6.64	14.4

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
177	65.0	35.1	29.9	1.2	2.84	2.55	143.7	4.03
178	66.6	35.7	30.9	1.2	3.47	2.15	143.4	3.80
179	71.5	33.3	38.2	0.9	3.85	2.47	143.3	3.77
180	65.3	32.6	32.7	1.0	3.07	2.69	142.2	4.14
181	67.5	35.9	31.6	1.1	3.12	2.92	142.9	4.09
182	67.5	34.7	32.8	1.1	4.80	2.62	142.2	4.03
183	70.6	37.6	33.0	1.1	5.14	2.64	142.0	3.82
184	68.8	35.8	33.0	1.1	4.60	3.01	143.4	3.77
185	68.8	35.3	33.5	1.1	4.12	2.77	141.8	4.87
186	63.9	34.0	29.9	1.1	3.71	2.74	144.3	4.05
187	63.1	33.8	29.3	1.2	7.14	2.37	141.9	3.84
189	61.2	32.2	29.0	1.1	4.32	2.57	142.5	4.41
190	64.5	35.0	29.5	1.2	5.50	2.36	141.7	4.27
191	70.3	38.1	32.2	1.2	4.50	2.37	140.0	3.95

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
177	2.58	101
178	2.54	102
179	2.59	99
180	2.56	99
181	2.59	102
182	2.73	103
183	2.72	99
184	2.62	104
185	2.63	99
186	2.49	103
187	2.57	104
189	2.59	102
190	2.53	102
191	2.63	99

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
9	0.82	2.50	3	2.35	0.49	43	5.79	7.2
10	1.07	2.46	3	2.11	0.46	35	5.21	7.9
11	0.70	3.43	3	1.39	0.63	28	5.95	5.3

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
9	57.6	28.4	29.2	1.0	4.77	2.87	144.9	4.53
10	54.9	28.4	26.5	1.1	8.85	2.76	144.9	4.01
11	55.1	30.1	25.0	1.2	6.16	2.80	143.0	4.85

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
9	2.52	103
10	2.44	102
11	2.48	103

000235

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	ALAT (GPT) ukat/l	ASAT (GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
25	0.71	2.42	3	2.42	0.67	36	7.39	6.8
26	0.58	3.16	3	1.07	0.39	33	4.33	7.4
27	0.56	2.52	2	1.53	0.77	32	6.96	7.7

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
25	52.0	28.6	23.4	1.2	7.04	2.94	142.1	4.59
26	50.3	27.7	22.6	1.2	7.89	2.76	145.9	4.26
27	52.2	28.0	24.2	1.2	5.86	2.63	142.3	4.69

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
25	2.50	100
26	2.39	105
27	2.44	102

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
41	0.61	2.89	3	1.61	1.23	31	7.79	6.2
42	0.55	2.95	3	1.57	0.89	34	6.81	7.5
43	0.78	2.89	2	1.54	0.54	33	5.94	7.1

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
41	57.5	29.7	27.8	1.1	7.13	2.98	142.6	4.97
42	56.8	29.2	27.6	1.1	4.72	2.73	142.2	5.07
43	58.6	29.6	29.0	1.0	5.60	2.52	141.1	4.82

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
41	2.51	99
42	2.46	102
43	2.47	99

000237

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 4 ()

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
57	0.87	2.49	3	2.30	0.82	40	8.32	6.7
58	0.66	3.54	3	2.03	0.62	37	8.45	7.4
59	1.01	2.56	2	1.45	0.67	40	8.23	6.4

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
57	52.3	27.9	24.4	1.1	6.34	2.73	140.3	4.35
58	57.3	29.1	28.2	1.0	6.70	2.68	141.2	4.64
59	51.3	26.5	24.8	1.1	4.78	2.52	141.7	4.25

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
57	2.57	99
58	2.56	101
59	2.37	101

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 5 (PFHS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
73	0.71	2.82	2	1.29	0.58	39	7.25	6.6
74	0.96	2.49	2	1.63	0.62	42	6.96	7.6
75	0.75	1.99	2	1.21	0.75	35	7.21	6.0

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
73	53.9	28.4	25.5	1.1	5.85	2.67	142.1	4.71
74	55.1	28.2	26.9	1.0	6.89	2.43	143.4	4.57
75	55.1	30.0	25.1	1.2	7.43	2.42	141.7	4.41

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
73	2.44	101
74	2.49	104
75	2.42	100

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
MALES
GROUP 6 (PFOS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
89	0.83	2.48	2	1.22	0.51	34	7.21	7.3
90	0.61	1.63	3	1.48	0.40	34	6.29	6.7
91	0.49	1.66	3	1.12	0.60	49	5.17	8.1

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
89	56.3	30.0	26.3	1.1	6.36	2.52	142.8	4.52
90	55.9	29.0	26.9	1.1	4.22	2.67	142.7	4.82
91	57.3	30.1	27.2	1.1	6.26	2.75	142.8	4.35

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
89	2.53	101
90	2.65	102
91	2.53	105

000240

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
105	0.52	2.50	3	1.95	0.56	37	6.72	6.7
106	0.43	1.96	3	2.59	0.97	38	9.25	6.2
107	0.46	3.12	2	1.93	0.55	41	6.06	7.6

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
105	65.2	32.4	32.8	1.0	3.43	2.45	143.3	3.98
106	65.3	34.7	30.6	1.1	3.21	2.39	142.5	4.14
107	60.4	29.4	31.0	0.9	3.26	2.56	141.4	4.12

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
105	2.60	98
106	2.79	99
107	2.51	99

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
121	0.52	2.44	2	2.14	0.43	40	7.26	6.3
122	1.02	3.36	3	2.20	0.40	41	6.31	8.9
123	0.36	2.02	2	1.42	0.46	38	5.98	6.7

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
121	58.1	29.6	28.5	1.0	4.38	2.64	142.4	3.95
122	61.3	34.9	26.4	1.3	4.07	2.89	144.2	4.16
123	65.6	33.6	32.0	1.1	2.34	2.18	141.7	3.77

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
121	2.54	98
122	2.65	100
123	2.59	99

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
137	0.58	2.27	2	1.27	0.39	37	6.71	7.1
138	0.51	2.35	2	1.97	0.87	40	7.44	9.3
139	0.37	1.69	2	1.97	0.57	47	7.77	8.1

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
137	60.7	29.5	31.2	0.9	5.56	2.27	143.1	3.76
138	62.9	32.5	30.4	1.1	4.02	2.38	141.4	4.54
139	59.7	32.9	26.8	1.2	3.49	2.30	141.5	3.86

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
137	2.46	98
138	2.61	103
139	2.63	96

000243

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 4 ()

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA. mmol/l
153	0.48	2.35	3	2.17	1.03	43	7.47	9.5
154	0.63	2.32	2	2.72	0.53	39	8.41	8.9
155	0.60	2.93	3	2.34	0.63	53	6.34	11.0

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
153	67.8	35.7	32.1	1.1	3.09	2.70	142.7	3.90
154	61.8	32.4	29.4	1.1	4.81	2.23	139.7	4.61
155	66.1	33.4	32.7	1.0	3.65	2.71	141.4	4.50

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
153	2.69	100
154	2.64	98
155	2.70	97

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 5 (PFHS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
169	0.48	1.83	3	1.66	0.50	46	7.25	7.7
170	0.43	1.56	3	2.42	0.35	39	6.01	7.2
171	0.65	1.58	3	2.24	0.34	47	9.38	7.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
169	65.5	30.7	34.8	0.9	4.62	2.37	141.1	3.98
170	62.8	30.9	31.9	1.0	2.30	2.19	141.1	3.65
171	71.0	32.5	38.5	0.8	2.90	2.70	142.5	4.08

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
169	2.58	100
170	2.62	99
171	2.84	95

CLINICAL BIOCHEMISTRY
AFTER 2 WEEKS RECOVERY
FEMALES
GROUP 6 (PFOS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
185	0.37	2.22	2	2.04	0.40	43	8.03	8.2
186	0.51	2.15	3	2.37	0.25	41	7.67	9.0
187	0.48	1.89	2	1.64	0.29	42	7.37	6.7

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
185	66.6	33.9	32.7	1.0	3.66	2.40	141.9	3.97
186	57.4	31.6	25.8	1.2	3.25	2.21	143.4	4.27
187	57.9	32.0	25.9	1.2	6.04	2.27	142.2	4.08

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
185	2.65	99
186	2.56	103
187	2.69	99

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
13	0.78	2.88	4	2.07	1.17	37	8.42	6.1
14	0.54	2.39	3	2.01	0.39	35	7.63	6.1
15	0.44	2.69	3	1.73	0.71	37	7.97	6.7

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
13	62.1	29.3	32.8	0.9	4.61	2.91	140.8	5.15
14	62.2	28.2	34.0	0.8	4.79	3.17	142.5	5.56
15	62.2	28.4	33.8	0.8	3.58	2.99	141.6	5.28

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
13	2.56	104
14	2.60	101
15	2.58	102

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
29	0.70	2.66	2	1.39	0.57	29	5.87	6.5
30	0.61	2.49	2	1.22	0.55	33	8.32	6.3
31	0.74	2.17	3	1.14	0.61	36	8.16	6.2

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
29	57.8	26.7	31.1	0.9	6.15	2.44	143.4	4.53
30	54.2	27.5	26.7	1.0	8.13	2.51	141.4	4.50
31	55.6	27.7	27.9	1.0	4.31	2.96	143.9	4.75

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
29	2.44	106
30	2.46	103
31	2.55	101

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
45	0.62	2.00	3	1.93	0.42	32	7.91	7.4
46	0.57	2.33	2	1.16	0.53	39	7.38	6.7
47	0.60	1.86	3	1.51	0.64	31	5.88	5.6

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
45	58.4	27.7	30.7	0.9	3.83	2.67	141.4	4.86
46	51.6	25.4	26.2	1.0	6.75	2.86	143.8	4.81
47	56.2	27.9	28.3	1.0	5.27	2.38	142.3	4.26

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
45	2.53	102
46	2.47	105
47	2.44	104

000249

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 4 ()

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
61	0.67	2.96	3	1.37	0.55	39	5.58	6.9
62	0.38	2.16	2	2.05	0.59	37	6.68	8.2
63	0.69	2.05	3	1.56	0.55	39	6.11	7.3

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
61	59.5	29.0	30.5	1.0	4.68	2.46	141.5	4.61
62	54.9	27.7	27.2	1.0	4.66	2.64	141.8	4.62
63	56.6	26.5	30.1	0.9	6.94	2.28	142.7	4.41

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
61	2.49	103
62	2.45	104
63	2.44	105

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 5 (PFHS)

ANIMAL NUMBER	ALAT (GPT) ukat/l	ASAT (GOT) ukat/l	BILI T. umol/l	CHOLEST. T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
77	0.60	2.61	3	1.22	0.57	47	5.95	8.1
78	0.94	2.21	2	1.34	0.26	47	4.77	10.4
79	0.71	2.38	2	1.16	0.24	36	6.00	6.5

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
77	57.9	27.0	30.9	0.9	5.79	2.55	143.5	4.40
78	58.1	28.0	30.1	0.9	4.17	2.55	142.9	4.26
79	56.0	27.0	29.0	0.9	8.04	2.86	144.9	5.04

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
77	2.48	104
78	2.49	103
79	2.51	103

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
MALES
GROUP 6 (PFOS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
93	0.56	1.99	2	0.92	0.35	29	6.01	5.8
94	0.77	1.73	2	1.47	0.58	31	7.23	5.6
95	0.58	1.89	2	1.62	0.43	36	6.85	6.5

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
93	51.7	27.0	24.7	1.1	4.89	2.58	142.8	4.60
94	55.0	27.3	27.7	1.0	4.78	2.40	142.7	4.78
95	56.7	28.3	28.4	1.0	4.52	2.79	142.5	4.58

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
93	2.43	105
94	2.52	107
95	2.49	109

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
109	0.41	2.28	3	2.25	0.60	45	6.19	7.7
110	0.45	2.54	2	2.31	0.78	40	8.58	5.9
111	0.28	1.92	2	2.94	0.52	39	6.70	9.0

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
109	61.4	30.1	31.3	1.0	3.41	2.46	144.0	3.84
110	69.4	33.2	36.2	0.9	2.49	2.14	142.5	4.01
111	63.8	30.5	33.3	0.9	2.96	2.39	140.5	4.50

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
109	2.47	103
110	2.55	101
111	2.55	96

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
125	0.39	2.66	2	2.68	1.00	39	6.83	6.7
126	0.34	2.26	2	2.01	0.47	40	6.54	6.8
127	---	2.01	3	2.55	0.76	48	5.91	9.0

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
125	67.0	32.2	34.8	0.9	1.73	2.26	141.4	4.25
126	62.2	30.3	31.9	0.9	3.18	2.35	142.2	4.36
127	63.6	32.4	31.2	1.0	4.19	2.11	141.3	3.82

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
125	2.64	104
126	2.49	98
127	2.46	102

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
141	0.43	1.74	2	2.18	0.43	40	6.64	8.3
142	0.36	1.54	3	2.39	0.50	41	6.73	6.9
143	0.59	2.40	3	2.32	0.49	45	7.32	8.8

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
141	65.5	29.5	36.0	0.8	3.86	2.19	138.7	5.43
142	67.8	34.7	33.1	1.0	2.08	1.95	141.6	3.66
143	69.9	35.9	34.0	1.1	3.40	1.79	141.7	4.34

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
141	2.47	96
142	2.60	103
143	2.59	102

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 4 ()

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
157	0.43	2.75	2	2.99	0.41	43	5.89	8.2
158	0.98	2.30	2	2.52	0.40	40	8.08	6.9
159	0.47	2.31	2	2.02	0.72	48	5.05	9.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
157	64.8	30.3	34.5	0.9	2.48	2.20	141.0	4.51
158	68.9	32.0	36.9	0.9	3.91	1.93	142.1	3.67
159	62.2	29.4	32.8	0.9	2.40	2.52	140.9	4.59

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
157	2.60	100
158	2.57	96
159	2.53	101

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 5 (PFHS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
173	0.33	2.27	2	1.68	0.40	38	6.77	6.8
174	0.64	3.09	2	2.12	0.34	39	6.50	6.9
175	0.45	2.21	2	2.37	0.46	39	7.31	7.3

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
173	68.5	34.9	33.6	1.0	1.78	2.15	139.9	4.17
174	69.4	33.5	35.9	0.9	3.46	2.08	140.5	4.25
175	70.2	34.2	36.0	1.0	2.85	2.24	142.6	3.65

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
173	2.59	104
174	2.59	99
175	2.61	102

CLINICAL BIOCHEMISTRY
AFTER 4 WEEKS RECOVERY
FEMALES
GROUP 6 (PFOS)

ANIMAL NUMBER	ALAT(GPT) ukat/l	ASAT(GOT) ukat/l	BILI T. umol/l	CHOLEST.T. mmol/l	TRIGL. mmol/l	CREATININE umol/l	GLUCOSE mmol/l	UREA mmol/l
189	0.52	1.96	2	2.38	0.39	39	6.77	9.4
190	0.49	1.94	2	1.99	0.74	38	8.87	7.9
191	0.50	1.86	3	2.01	0.37	39	7.31	14.9

ANIMAL NUMBER	PROTEIN T. g/l	ALBUMIN g/l	GLOBULIN g/l	A/G RATIO	ALP ukat/l	INORG PHOS mmol/l	SODIUM mmol/l	POTASSIUM mmol/l
189	59.5	30.6	28.9	1.1	3.56	2.56	142.7	4.13
190	66.2	33.2	33.0	1.0	3.19	2.18	141.0	4.36
191	70.1	34.6	35.5	1.0	3.40	2.07	139.5	4.00

ANIMAL NUMBER	CALCIUM mmol/l	CHLORIDE mmol/l
189	2.63	100
190	2.61	108
191	2.67	100

MACROSCOPIC FINDINGS
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL 1 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 2 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 3 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 4 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 5 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 6 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 7 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 8 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 9 (SCHEDULED NECROPSY, 18-NOV-98)

SKIN..... CHEST REGION: ALOPECIA.

ANIMAL 10 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 11 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

MACROSCOPIC FINDINGS
MALES
GROUP 1 (VEHICLE CONTROL)

ANIMAL 13

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 14

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 15

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

MACROSCOPIC FINDINGS
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL 17 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 18 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 19 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 20 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 21 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 22 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 23 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 24 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 25 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 26 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 27 (SCHEDULED NECROPSY, 18-NOV-98)

TESTES..... REDUCED IN SIZE, FLACCID.

MACROSCOPIC FINDINGS
MALES
GROUP 2 (TELOMER ALCOHOL)

ANIMAL 29 (SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 30 (SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 31 (SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

**MACROSCOPIC FINDINGS
MALES
GROUP 3 (TELOMER ACRYLATE)**

ANIMAL 33	(SCHEDULED NECROPSY, 03-NOV-98)
NO FINDINGS NOTED	
ANIMAL 34	(SCHEDULED NECROPSY, 03-NOV-98)
NO FINDINGS NOTED	
ANIMAL 35	(SCHEDULED NECROPSY, 03-NOV-98)
NO FINDINGS NOTED	
ANIMAL 36	(SCHEDULED NECROPSY, 03-NOV-98)
NO FINDINGS NOTED	
ANIMAL 37	(SCHEDULED NECROPSY, 04-NOV-98)
NO FINDINGS NOTED	
ANIMAL 38	(SCHEDULED NECROPSY, 04-NOV-98)
NO FINDINGS NOTED	
ANIMAL 39	(SCHEDULED NECROPSY, 04-NOV-98)
NO FINDINGS NOTED	
ANIMAL 40	(SCHEDULED NECROPSY, 04-NOV-98)
NO FINDINGS NOTED	
ANIMAL 41	(SCHEDULED NECROPSY, 18-NOV-98)
NO FINDINGS NOTED	
ANIMAL 42	(SCHEDULED NECROPSY, 18-NOV-98)
NO FINDINGS NOTED	
ANIMAL 43	(SCHEDULED NECROPSY, 18-NOV-98)
NO FINDINGS NOTED	

**MACROSCOPIC FINDINGS
MALES
GROUP 3 (TELOMER ACRYLATE)**

ANIMAL 45

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 46

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 47

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

MACROSCOPIC FINDINGS
MALES
GROUP 4 ()

ANIMAL 49 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 50 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 51 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 52 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 53 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 54 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 55 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 56 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 57 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 58 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 59 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

MACROSCOPIC FINDINGS
MALES
GROUP 4 ()

ANIMAL 61

(SCHEDULED NECROPSY, 02-DEC-98)

EYES..... RIGHT SIDE, LENS: REDUCED IN SIZE.

ANIMAL 62

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 63

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

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MACROSCOPIC FINDINGS
MALES
GROUP 5 (PFHS)

ANIMAL 65 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 66 (SCHEDULED NECROPSY, 03-NOV-98)

LUNGS..... HEMORRHAGE.
STOMACH..... GLANDULAR MUCOSA: HEMORRHAGE.
TESTES..... REDUCED IN SIZE.
EPIDIDYMIDES..... REDUCED IN SIZE.

ANIMAL 67 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 68 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 69 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 70 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 71 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 72 (SCHEDULED NECROPSY, 04-NOV-98)

LIVER..... ENLARGED.

ANIMAL 73 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 74 (SCHEDULED NECROPSY, 18-NOV-98)

TESTES..... REDUCED IN SIZE.

000267

MACROSCOPIC FINDINGS
MALES
GROUP 5 (PFHS)

ANIMAL 75 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 77 (SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 78 (SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 79 (SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

000268

**MACROSCOPIC FINDINGS
MALES
GROUP 6 (PFOS)**

ANIMAL 81 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 82 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 83 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 84 (SCHEDULED NECROPSY, 03-NOV-98)

NO FINDINGS NOTED

ANIMAL 85 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 86 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 87 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 88 (SCHEDULED NECROPSY, 04-NOV-98)

NO FINDINGS NOTED

ANIMAL 89 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

ANIMAL 90 (SCHEDULED NECROPSY, 18-NOV-98)

LIVER..... ACCENTUATED LOBULAR PATTERN.

ANIMAL 91 (SCHEDULED NECROPSY, 18-NOV-98)

NO FINDINGS NOTED

MACROSCOPIC FINDINGS
MALES
GROUP 6 (PFOS)

ANIMAL 93

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 94

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

ANIMAL 95

(SCHEDULED NECROPSY, 02-DEC-98)

NO FINDINGS NOTED

**MACROSCOPIC FINDINGS
FEMALES
GROUP 1 (VEHICLE CONTROL)**

ANIMAL 97 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 98 (SCHEDULED NECROPSY, 05-NOV-98)

OVARIES..... LEFT SIDE: WATERY CYST.

ANIMAL 99 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 100 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 101 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 102 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 103 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 104 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 105 (SCHEDULED NECROPSY, 20-NOV-98)

SKIN..... ABDOMINAL REGION: SCAB FORMATION.

ANIMAL 106 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

ANIMAL 107 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

**MACROSCOPIC FINDINGS
FEMALES
GROUP 1 (VEHICLE CONTROL)**

ANIMAL 109

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 110

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 111

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

000272

**MACROSCOPIC FINDINGS
FEMALES
GROUP 2 (TELOMER ALCOHOL)**

ANIMAL 113 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 114 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 115 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 116 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 117 (SCHEDULED NECROPSY, 06-NOV-98)

KIDNEYS..... RIGHT SIDE: PELVIC DILATION.

ANIMAL 118 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 119 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 120 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 121 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

ANIMAL 122 (SCHEDULED NECROPSY, 20-NOV-98)

SKIN..... ALOPECIA.

ANIMAL 123 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

000273

**MACROSCOPIC FINDINGS
FEMALES
GROUP 2 (TELOMER ALCOHOL)**

ANIMAL 125

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 126

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 127

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

000274

**MACROSCOPIC FINDINGS
FEMALES
GROUP 3 (TELOMER ACRYLATE)**

ANIMAL 129	(OTHER, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 130	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 131	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 132	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 133	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 134	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 135	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 136	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 137	(SCHEDULED NECROPSY, 20-NOV-98)
NO FINDINGS NOTED	
ANIMAL 138	(SCHEDULED NECROPSY, 20-NOV-98)
NO FINDINGS NOTED	
ANIMAL 139	(SCHEDULED NECROPSY, 20-NOV-98)
NO FINDINGS NOTED	

**MACROSCOPIC FINDINGS
FEMALES
GROUP 3 (TELOMER ACRYLATE)**

ANIMAL 141

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 142

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 143

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

MACROSCOPIC FINDINGS
FEMALES
GROUP 4 ()

ANIMAL 145 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 146 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 147 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 148 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 149 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 150 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 151 (SCHEDULED NECROPSY, 06-NOV-98)

UTERUS..... LEFT SIDE: CYST(S).

ANIMAL 152 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 153 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

ANIMAL 154 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

ANIMAL 155 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

000277

MACROSCOPIC FINDINGS
FEMALES
GROUP 4 ()

ANIMAL 157

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 158

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 159

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

**MACROSCOPIC FINDINGS
FEMALES
GROUP 5 (PFHS)**

ANIMAL 161 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 162 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 163 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 164 (SCHEDULED NECROPSY, 05-NOV-98)

NO FINDINGS NOTED

ANIMAL 165 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 166 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 167 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 168 (SCHEDULED NECROPSY, 06-NOV-98)

NO FINDINGS NOTED

ANIMAL 169 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

ANIMAL 170 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

ANIMAL 171 (SCHEDULED NECROPSY, 20-NOV-98)

NO FINDINGS NOTED

000279

MACROSCOPIC FINDINGS
FEMALES
GROUP 5 (PFHS)

ANIMAL 173

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 174

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 175

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

000280

**MACROSCOPIC FINDINGS
FEMALES
GROUP 6 (PFOS)**

ANIMAL 177	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 178	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 179	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 180	(SCHEDULED NECROPSY, 05-NOV-98)
NO FINDINGS NOTED	
ANIMAL 181	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 182	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 183	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 184	(SCHEDULED NECROPSY, 06-NOV-98)
NO FINDINGS NOTED	
ANIMAL 185	(SCHEDULED NECROPSY, 20-NOV-98)
NO FINDINGS NOTED	
ANIMAL 186	(SCHEDULED NECROPSY, 20-NOV-98)
NO FINDINGS NOTED	
ANIMAL 187	(SCHEDULED NECROPSY, 20-NOV-98)
NO FINDINGS NOTED	

MACROSCOPIC FINDINGS
FEMALES
GROUP 6 (PFOS)

ANIMAL 189

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 190

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ANIMAL 191

(SCHEDULED NECROPSY, 04-DEC-98)

NO FINDINGS NOTED

ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS
MALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
1	284	1.95	1.081	8.04	1.84	0.038	0.434	2.71
2	332	2.04	1.390	10.76	2.59	0.050	0.565	2.79
3	348	2.03	1.108	10.40	2.41	0.037	0.563	3.32
4	270	2.00	1.070	8.54	1.75	0.040	0.482	2.53
5	303	1.92	1.141	10.49	2.54	0.053	0.488	2.91
6	327	2.01	1.088	10.38	2.06	0.044	0.733	2.82
7	351	2.14	1.123	11.92	2.63	0.051	0.766	3.03
8	301	1.99	1.059	9.84	2.59	0.047	0.605	2.82

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
17	322	1.99	1.149	10.16	2.35	0.049	0.465	3.05
18	295	2.01	1.300	11.71	2.57	0.050	0.551	3.27
19	312	2.00	0.935	9.71	2.35	0.053	0.541	3.19
20	299	1.96	1.033	9.50	2.24	0.055	0.540	3.21
21	315	1.84	1.129	10.48	2.40	0.050	0.565	2.63
22	348	2.05	1.309	10.71	2.57	0.049	0.712	3.18
23	313	1.87	0.972	10.15	2.12	0.072	0.560	2.87
24	312	1.95	1.241	10.42	2.09	0.049	0.590	2.96

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
33	313	1.97	1.127	9.89	2.08	0.053	0.637	2.52
34	288	1.93	0.943	8.88	2.16	0.046	0.498	2.77
35	293	1.95	1.131	8.71	2.08	0.038	0.476	2.77
36	293	1.94	0.972	8.90	2.14	0.059	0.530	2.74
37	303	2.02	1.321	9.66	2.50	0.058	0.603	2.84
38	324	1.98	1.079	10.40	2.37	0.056	0.592	2.97
39	319	1.99	1.077	9.48	2.19	0.046	0.656	2.69
40	304	1.82	1.122	8.95	2.12	0.056	0.547	2.94

GROUP 4 ()

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
49	290	1.96	1.055	8.23	1.99	0.046	0.488	3.18
50	296	2.07	1.193	9.16	2.08	0.033	0.627	3.00
51	342	2.11	1.156	10.83	2.54	0.046	0.719	2.77
52	324	1.97	1.224	9.52	2.26	0.053	0.559	2.96
53	320	1.98	1.331	9.39	2.36	0.042	0.629	2.58
54	330	1.99	1.207	9.53	2.25	0.041	0.547	2.70
55	284	1.97	1.025	8.50	2.07	0.045	0.537	2.95
56	263	1.93	1.043	7.18	1.73	0.058	0.519	2.75

ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS
MALES

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
65	352	2.02	1.267	16.85	2.77	0.037	0.595	3.22
66	270	1.89	0.992	11.52	2.14	0.038	0.504	0.85
67	297	2.03	1.131	13.86	2.49	0.059	0.549	3.18
68	297	1.94	1.148	13.10	2.31	0.046	0.541	3.07
69	287	1.86	1.096	12.96	2.11	0.058	0.570	2.82
70	347	2.07	1.153	14.49	2.47	0.057	0.745	3.18
71	311	1.83	1.030	11.84	2.19	0.051	0.516	3.05
72	306	2.04	1.040	15.62	2.28	0.056	0.539	3.04

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
81	303	1.99	1.102	11.04	2.15	0.039	0.501	2.80
82	295	1.98	1.165	11.17	2.21	0.055	0.433	2.86
83	308	2.06	0.961	10.67	1.91	0.039	0.560	2.82
84	318	2.00	1.171	11.52	2.42	0.032	0.510	2.79
85	362	1.96	1.223	13.46	2.34	0.060	0.692	2.88
86	293	1.93	1.259	12.90	2.28	0.039	0.664	2.58
87	351	1.97	1.163	12.33	2.26	0.067	0.634	3.22
88	317	2.07	1.004	11.19	1.96	0.040	0.469	2.84

000284

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS
MALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
1	284	0.69	0.381	2.83	0.65	0.013	0.153	0.95
2	332	0.61	0.419	3.24	0.78	0.015	0.170	0.84
3	348	0.58	0.318	2.99	0.69	0.011	0.162	0.95
4	270	0.74	0.396	3.16	0.65	0.015	0.179	0.94
5	303	0.63	0.377	3.46	0.84	0.017	0.161	0.96
6	327	0.62	0.333	3.18	0.63	0.013	0.224	0.86
7	351	0.61	0.320	3.40	0.75	0.015	0.218	0.86
8	301	0.66	0.352	3.27	0.86	0.016	0.201	0.94

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
17	322	0.62	0.357	3.15	0.73	0.015	0.144	0.95
18	295	0.68	0.441	3.97	0.87	0.017	0.187	1.11
19	312	0.64	0.300	3.11	0.75	0.017	0.173	1.02
20	299	0.65	0.345	3.18	0.75	0.018	0.181	1.07
21	315	0.58	0.358	3.33	0.76	0.016	0.179	0.83
22	348	0.59	0.376	3.08	0.74	0.014	0.205	0.91
23	313	0.60	0.311	3.24	0.68	0.023	0.179	0.92
24	312	0.62	0.398	3.34	0.67	0.016	0.189	0.95

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
33	313	0.63	0.360	3.16	0.66	0.017	0.204	0.80
34	288	0.67	0.327	3.08	0.75	0.016	0.173	0.96
35	293	0.66	0.386	2.97	0.71	0.013	0.162	0.95
36	293	0.66	0.332	3.04	0.73	0.020	0.181	0.94
37	303	0.67	0.436	3.19	0.83	0.019	0.199	0.94
38	324	0.61	0.333	3.21	0.73	0.017	0.183	0.92
39	319	0.62	0.338	2.97	0.68	0.014	0.206	0.84
40	304	0.60	0.369	2.94	0.70	0.018	0.180	0.97

GROUP 4 ()

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
49	290	0.67	0.364	2.84	0.69	0.016	0.168	1.10
50	296	0.70	0.403	3.09	0.70	0.011	0.212	1.01
51	342	0.62	0.338	3.17	0.74	0.013	0.210	0.81
52	324	0.61	0.378	2.94	0.70	0.016	0.173	0.91
53	320	0.62	0.416	2.93	0.74	0.013	0.197	0.81
54	330	0.60	0.366	2.89	0.68	0.012	0.166	0.82
55	284	0.69	0.361	2.99	0.73	0.016	0.189	1.04
56	263	0.73	0.397	2.73	0.66	0.022	0.197	1.05

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS
MALES

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
65	352	0.57	0.360	4.79	0.79	0.011	0.169	0.91
66	270	0.70	0.367	4.27	0.79	0.014	0.187	0.31
67	297	0.68	0.381	4.67	0.84	0.020	0.185	1.07
68	297	0.65	0.387	4.41	0.78	0.015	0.182	1.03
69	287	0.65	0.382	4.52	0.73	0.020	0.199	0.98
70	347	0.60	0.332	4.18	0.71	0.016	0.215	0.92
71	311	0.59	0.331	3.81	0.70	0.016	0.166	0.98
72	306	0.67	0.340	5.10	0.74	0.018	0.176	0.99

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
81	303	0.66	0.364	3.64	0.71	0.013	0.165	0.92
82	295	0.67	0.395	3.79	0.75	0.019	0.147	0.97
83	308	0.67	0.312	3.46	0.62	0.013	0.182	0.91
84	318	0.63	0.368	3.62	0.76	0.010	0.160	0.88
85	362	0.54	0.338	3.72	0.65	0.017	0.191	0.80
86	293	0.66	0.430	4.40	0.78	0.013	0.227	0.88
87	351	0.56	0.331	3.51	0.64	0.019	0.181	0.92
88	317	0.65	0.317	3.53	0.62	0.013	0.148	0.90

ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS
FEMALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
97	201	1.93	0.861	6.95	1.44	0.060	0.424	0.089
98	194	1.92	0.799	6.34	1.39	0.075	0.345	0.142
99	204	1.89	0.750	6.13	1.35	0.052	0.398	0.128
100	217	1.96	0.869	6.82	1.56	0.057	0.483	0.119
101	241	1.91	0.917	7.19	1.71	0.046	0.458	0.130
102	229	1.89	0.901	6.61	1.49	0.065	0.366	0.163
103	183	1.70	0.855	5.79	1.36	0.062	0.426	0.100
104	242	1.85	0.867	7.13	1.71	0.061	0.481	0.122

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
113	204	1.91	0.890	6.96	1.47	0.055	0.470	0.129
114	246	2.03	0.883	8.13	1.85	0.056	0.479	0.130
115	215	1.92	0.785	7.39	1.75	0.078	0.501	0.123
116	218	2.08	0.827	7.59	1.44	0.062	0.378	0.121
117	194	1.82	0.749	6.97	1.68	0.073	0.433	0.172
118	200	1.89	0.829	6.78	1.59	0.054	0.435	0.144
119	201	1.93	0.751	6.35	1.48	0.067	0.446	0.104
120	213	1.88	0.786	7.29	1.75	0.069	0.457	0.142

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
129	204	---	---	---	---	---	---	---
130	182	1.84	0.744	5.70	1.42	0.052	0.298	0.127
131	196	1.86	0.736	6.48	1.61	0.053	0.300	0.162
132	205	1.88	0.847	6.23	1.59	0.060	0.479	0.138
133	181	1.77	0.770	6.19	1.36	0.054	0.454	0.125
134	215	1.92	0.799	6.84	1.57	0.063	0.494	0.127
135	227	1.85	0.917	7.07	1.62	0.077	0.487	0.146
136	193	1.79	0.714	6.09	1.41	0.060	0.409	0.118

GROUP 4 ()

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
145	193	1.80	0.794	6.44	1.53	0.066	1.527	0.131
146	222	1.89	0.961	6.76	1.46	0.160	0.529	0.055
147	223	2.01	0.794	6.05	1.64	0.057	0.511	0.138
148	186	1.84	0.767	5.72	1.50	0.043	0.506	0.116
149	220	1.96	0.855	8.10	1.89	0.055	0.420	0.156
150	219	2.00	0.773	6.71	1.48	0.068	0.478	0.130
151	200	1.84	0.778	6.22	1.41	0.049	0.463	0.136
152	201	1.85	0.719	6.28	1.33	0.061	0.429	0.129

ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS
FEMALES

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
161	193	1.94	0.769	7.96	1.61	0.068	0.436	0.150
162	201	1.93	0.703	6.70	1.42	0.056	0.419	0.102
163	191	1.78	0.816	5.97	1.32	0.060	0.397	0.121
164	202	1.78	0.800	6.57	1.68	0.047	0.443	0.138
165	198	1.81	0.910	7.08	1.46	0.071	0.361	0.138
166	208	1.98	0.881	6.67	1.48	0.062	0.431	0.152
167	183	1.86	0.688	5.68	1.47	0.049	0.357	0.115
168	228	1.99	0.880	7.08	1.62	0.052	0.415	0.141

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
177	215	1.86	0.788	9.28	1.69	0.053	0.474	0.111
178	163	1.79	0.660	6.47	1.29	0.044	0.327	0.135
179	185	1.91	0.663	7.23	1.48	0.047	0.386	0.108
180	173	1.86	0.673	7.16	1.41	0.061	0.394	0.115
181	185	1.88	0.818	7.62	1.39	0.055	0.404	0.146
182	199	1.96	0.845	8.41	1.47	0.059	0.420	0.110
183	191	1.91	0.777	7.85	1.43	0.059	0.442	0.154
184	188	1.88	0.757	8.36	1.52	0.057	0.450	0.148

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS
FEMALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
97	201	0.96	0.428	3.46	0.71	0.030	0.211	0.044
98	194	0.99	0.412	3.27	0.71	0.039	0.178	0.073
99	204	0.93	0.368	3.01	0.66	0.025	0.195	0.063
100	217	0.90	0.400	3.14	0.72	0.026	0.223	0.055
101	241	0.79	0.380	2.98	0.71	0.019	0.190	0.054
102	229	0.83	0.393	2.89	0.65	0.028	0.160	0.071
103	183	0.93	0.467	3.16	0.74	0.034	0.233	0.055
104	242	0.76	0.358	2.95	0.71	0.025	0.199	0.050

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
113	204	0.94	0.436	3.41	0.72	0.027	0.230	0.063
114	246	0.83	0.359	3.31	0.75	0.023	0.195	0.053
115	215	0.89	0.365	3.44	0.81	0.036	0.233	0.057
116	218	0.95	0.379	3.48	0.66	0.028	0.173	0.056
117	194	0.94	0.386	3.59	0.87	0.038	0.223	0.089
118	200	0.95	0.415	3.39	0.80	0.027	0.218	0.072
119	201	0.96	0.374	3.16	0.73	0.033	0.222	0.052
120	213	0.88	0.369	3.42	0.82	0.032	0.215	0.067

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
129	204	---	---	---	---	---	---	---
130	182	1.01	0.409	3.13	0.78	0.029	0.164	0.070
131	196	0.95	0.376	3.31	0.82	0.027	0.153	0.083
132	205	0.92	0.413	3.04	0.78	0.029	0.234	0.067
133	181	0.98	0.425	3.42	0.75	0.030	0.251	0.069
134	215	0.89	0.372	3.18	0.73	0.029	0.230	0.059
135	227	0.81	0.404	3.11	0.71	0.034	0.215	0.064
136	193	0.93	0.370	3.16	0.73	0.031	0.212	0.061

GROUP 4 ()

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
145	193	0.93	0.411	3.34	0.79	0.034	0.791	0.068
146	222	0.85	0.433	3.04	0.66	0.072	0.238	0.025
147	223	0.90	0.356	2.71	0.73	0.026	0.229	0.062
148	186	0.99	0.412	3.07	0.80	0.023	0.272	0.062
149	220	0.89	0.389	3.68	0.86	0.025	0.191	0.071
150	219	0.91	0.353	3.06	0.68	0.031	0.218	0.059
151	200	0.92	0.389	3.11	0.70	0.025	0.232	0.068
152	201	0.92	0.358	3.12	0.66	0.030	0.213	0.064

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS
FEMALES

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
161	193	1.01	0.398	4.13	0.83	0.035	0.226	0.078
162	201	0.96	0.350	3.33	0.70	0.028	0.208	0.051
163	191	0.93	0.427	3.13	0.69	0.031	0.208	0.063
164	202	0.88	0.396	3.25	0.83	0.023	0.219	0.068
165	198	0.92	0.460	3.57	0.74	0.036	0.182	0.070
166	208	0.95	0.424	3.21	0.71	0.030	0.207	0.073
167	183	1.01	0.376	3.10	0.80	0.027	0.195	0.063
168	228	0.87	0.386	3.10	0.71	0.023	0.182	0.062

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
177	215	0.86	0.367	4.32	0.79	0.025	0.220	0.052
178	163	1.10	0.405	3.97	0.79	0.027	0.201	0.083
179	185	1.03	0.358	3.91	0.80	0.025	0.209	0.058
180	173	1.07	0.389	4.14	0.82	0.035	0.228	0.066
181	185	1.02	0.442	4.12	0.75	0.030	0.218	0.079
182	199	0.99	0.425	4.23	0.74	0.030	0.211	0.055
183	191	1.00	0.407	4.11	0.75	0.031	0.231	0.081
184	188	1.00	0.403	4.45	0.81	0.030	0.239	0.079

ORGAN WEIGHTS (GRAM)
AFTER 2 WEEKS RECOVERY
MALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
9	344	2.03	1.185	8.98	2.02	0.039	0.440	2.88
10	277	1.81	0.960	7.42	1.74	0.037	0.358	2.55
11	338	2.01	1.128	8.32	2.35	0.050	0.526	3.01

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
25	328	1.93	1.007	8.62	2.04	0.041	0.578	2.67
26	295	1.96	1.068	7.54	2.11	0.046	0.571	2.62
27	320	2.05	1.112	8.65	2.09	0.031	0.555	1.10

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
41	379	2.01	1.113	12.10	2.75	0.047	0.504	3.16
42	319	2.04	1.284	8.88	2.15	0.036	0.578	3.19
43	334	1.80	1.119	8.71	2.33	0.047	0.547	2.91

GROUP 4 ()

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
57	415	2.13	1.125	11.41	2.56	0.041	0.739	3.53
58	354	2.02	1.179	10.45	2.50	0.063	0.582	3.35
59	329	1.91	1.155	9.05	2.11	0.062	0.548	3.18

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
73	386	2.00	1.309	12.15	2.54	0.045	0.630	3.27
74	249	1.73	1.027	6.89	1.60	0.035	0.476	1.34
75	336	2.06	1.112	9.62	2.41	0.043	0.517	3.21

ORGAN WEIGHTS (GRAM)
AFTER 2 WEEKS RECOVERY
MALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
89	394	2.03	1.333	14.20	2.66	0.041	0.758	3.31
90	370	2.07	1.237	14.62	2.58	0.048	0.631	2.80
91	377	2.00	1.328	13.39	2.70	0.054	0.517	2.97

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ORGAN/BODY WEIGHT RATIOS (%)
AFTER 2 WEEKS RECOVERY
MALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
9	344	0.59	0.344	2.61	0.59	0.011	0.128	0.84
10	277	0.65	0.347	2.68	0.63	0.013	0.129	0.92
11	338	0.60	0.334	2.46	0.70	0.015	0.156	0.89

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
25	328	0.59	0.307	2.63	0.62	0.013	0.176	0.81
26	295	0.67	0.362	2.56	0.72	0.016	0.194	0.89
27	320	0.64	0.348	2.70	0.65	0.010	0.173	0.34

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
41	379	0.53	0.294	3.19	0.73	0.012	0.133	0.83
42	319	0.64	0.403	2.78	0.67	0.011	0.181	1.00
43	334	0.54	0.335	2.61	0.70	0.014	0.164	0.87

GROUP 4 ()

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
57	415	0.51	0.271	2.75	0.62	0.010	0.178	0.85
58	354	0.57	0.333	2.95	0.71	0.018	0.164	0.95
59	329	0.58	0.351	2.75	0.64	0.019	0.167	0.97

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
73	386	0.52	0.339	3.15	0.66	0.012	0.163	0.85
74	249	0.69	0.412	2.77	0.64	0.014	0.191	0.54
75	336	0.61	0.331	2.86	0.72	0.013	0.154	0.95

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 2 WEEKS RECOVERY
MALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
89	394	0.52	0.338	3.60	0.68	0.010	0.192	0.84
90	370	0.56	0.334	3.95	0.70	0.013	0.171	0.76
91	377	0.53	0.352	3.55	0.72	0.014	0.137	0.79

**ORGAN WEIGHTS (GRAM)
AFTER 2 WEEKS RECOVERY
FEMALES**

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
105	217	1.98	0.867	6.95	1.51	0.052	0.449	0.150
106	272	2.05	0.960	9.23	1.71	0.056	0.439	0.574
107	227	1.85	0.868	6.90	1.39	0.057	0.372	0.132

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
121	200	1.85	0.812	6.72	1.60	0.074	0.367	0.125
122	203	1.85	0.915	6.01	1.31	0.057	0.370	0.135
123	231	1.98	0.848	7.72	1.62	0.057	0.536	0.131

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
137	217	1.88	0.873	7.40	1.70	0.080	0.523	0.120
138	189	1.91	0.767	5.66	1.41	0.047	0.382	0.120
139	200	1.94	0.853	6.06	1.44	0.067	0.344	0.138

GROUP 4 ()

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
153	214	1.89	0.980	7.05	1.61	0.075	0.404	0.149
154	246	1.95	0.950	7.00	1.72	0.065	0.432	0.162
155	191	1.90	0.878	7.18	1.48	0.068	0.405	0.123

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
169	228	1.90	0.844	6.77	1.54	0.061	0.362	0.135
170	211	1.92	0.784	6.84	1.55	0.055	0.508	0.118
171	232	1.95	0.892	7.96	1.45	0.059	0.476	0.147

ORGAN WEIGHTS (GRAM)
AFTER 2 WEEKS RECOVERY
FEMALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
185	197	2.02	0.702	8.18	1.48	0.057	0.397	0.138
186	199	1.93	0.735	7.10	1.41	0.056	0.415	0.132
187	203	2.04	0.732	7.37	1.26	0.055	0.365	0.127

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 2 WEEKS RECOVERY
FEMALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
105	217	0.91	0.400	3.20	0.69	0.024	0.207	0.069
106	272	0.75	0.353	3.39	0.63	0.021	0.161	0.211
107	227	0.81	0.382	3.04	0.61	0.025	0.164	0.058

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
121	200	0.93	0.406	3.36	0.80	0.037	0.184	0.063
122	203	0.91	0.451	2.96	0.65	0.028	0.182	0.067
123	231	0.86	0.367	3.34	0.70	0.025	0.232	0.057

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
137	217	0.87	0.402	3.41	0.79	0.037	0.241	0.055
138	189	1.01	0.406	3.00	0.75	0.025	0.202	0.063
139	200	0.97	0.427	3.03	0.72	0.034	0.172	0.069

GROUP 4 ()

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
153	214	0.88	0.458	3.29	0.75	0.035	0.189	0.070
154	246	0.79	0.386	2.85	0.70	0.026	0.176	0.066
155	191	0.99	0.460	3.76	0.77	0.036	0.212	0.064

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
169	228	0.83	0.370	2.97	0.68	0.027	0.159	0.059
170	211	0.91	0.372	3.24	0.74	0.026	0.241	0.056
171	232	0.84	0.384	3.43	0.62	0.025	0.205	0.063

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 2 WEEKS RECOVERY
FEMALES**GROUP 6 (PFOS)**

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
185	197	1.02	0.356	4.15	0.75	0.029	0.202	0.070
186	199	0.97	0.369	3.57	0.71	0.028	0.209	0.066
187	203	1.00	0.361	3.63	0.62	0.027	0.180	0.063

ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS RECOVERY
MALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
13	415	1.97	1.284	12.26	2.69	0.038	0.576	2.86
14	360	1.83	1.206	9.57	2.38	0.041	0.611	2.73
15	392	2.12	1.099	10.47	2.24	0.058	0.656	3.01

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
29	330	2.01	1.195	9.41	2.35	0.048	0.456	2.97
30	396	2.08	1.199	10.27	2.48	0.059	0.544	2.92
31	362	2.08	1.228	9.66	2.44	0.042	0.620	3.68
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GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
45	380	2.07	1.282	11.08	2.55	0.050	0.656	3.06
46	380	2.07	1.237	9.77	2.48	0.056	0.534	3.11
47	375	2.12	1.132	10.05	2.50	0.057	0.582	3.17

GROUP 4 ()

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
61	434	2.33	1.378	9.91	2.79	0.070	0.692	3.36
62	406	1.99	1.389	10.46	2.32	0.046	0.705	2.97
63	363	2.00	1.129	9.81	2.67	0.051	0.762	2.98

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
77	358	2.11	1.105	9.57	2.13	0.050	0.625	3.22
78	321	1.95	0.875	8.43	1.89	0.045	0.529	3.03
79	326	1.99	1.164	8.54	2.69	0.047	0.502	3.01

ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS RECOVERY
MALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
93	301	1.96	0.953	8.98	2.26	0.055	0.505	3.10
94	374	2.08	1.429	12.66	2.66	0.037	0.774	3.62
95	356	1.98	1.311	11.87	2.53	0.047	0.607	3.09

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS RECOVERY
MALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
13	415	0.47	0.309	2.96	0.65	0.009	0.139	0.69
14	360	0.51	0.335	2.66	0.66	0.011	0.170	0.76
15	392	0.54	0.280	2.67	0.57	0.015	0.167	0.77

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
29	330	0.61	0.362	2.85	0.71	0.015	0.138	0.90
30	396	0.52	0.303	2.59	0.63	0.015	0.137	0.74
31	362	0.57	0.339	2.67	0.67	0.012	0.171	1.02
32	---	---	---	---	---	---	---	---

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
45	380	0.54	0.337	2.92	0.67	0.013	0.173	0.80
46	380	0.55	0.326	2.57	0.65	0.015	0.141	0.82
47	375	0.57	0.302	2.68	0.67	0.015	0.155	0.85

GROUP 4 ()

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
61	434	0.54	0.318	2.28	0.64	0.016	0.159	0.77
62	406	0.49	0.342	2.58	0.57	0.011	0.174	0.73
63	363	0.55	0.311	2.70	0.74	0.014	0.210	0.82

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
77	358	0.59	0.309	2.67	0.59	0.014	0.175	0.90
78	321	0.61	0.273	2.62	0.59	0.014	0.165	0.94
79	326	0.61	0.357	2.62	0.83	0.014	0.154	0.92

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS RECOVERY
MALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	TESTES
93	301	0.65	0.317	2.98	0.75	0.018	0.168	1.03
94	374	0.56	0.382	3.39	0.71	0.010	0.207	0.97
95	356	0.56	0.368	3.34	0.71	0.013	0.171	0.87

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**ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS RECOVERY
FEMALES**

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
109	212	1.86	0.847	5.83	1.34	0.062	0.426	0.137
110	261	1.87	1.052	8.12	1.84	0.078	0.508	0.144
111	255	2.01	0.850	7.09	1.60	0.055	0.402	0.118

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
125	223	2.00	0.826	7.21	1.62	0.079	0.430	0.122
126	220	1.89	0.757	6.22	1.72	0.053	0.309	0.138
127	241	2.00	0.971	7.20	1.53	0.061	0.589	0.179
128	---	---	---	---	---	---	---	---

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
141	212	1.83	0.854	6.69	1.64	0.068	0.429	0.160
142	211	1.86	0.834	6.09	1.38	0.053	0.489	0.138
143	254	1.94	0.922	7.79	1.61	0.066	0.360	0.136

GROUP 4 ()

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
157	219	2.02	0.900	6.04	1.46	0.061	0.595	0.125
158	211	1.94	0.836	6.82	1.62	0.061	0.391	0.167
159	275	1.94	1.018	9.04	1.95	0.062	0.525	0.204

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
173	219	1.85	0.866	6.99	1.75	0.064	0.377	0.123
174	241	1.97	0.922	6.88	1.58	0.068	0.329	0.128
175	219	1.81	0.793	6.60	1.52	0.063	0.358	0.207

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ORGAN WEIGHTS (GRAM)
AFTER 4 WEEKS RECOVERY
FEMALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W.	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
189	201	1.78	0.854	7.72	1.55	0.069	0.485	0.139
190	220	1.92	0.799	7.61	1.80	0.049	0.431	0.144
191	202	1.93	0.823	7.15	1.68	0.055	0.366	0.141

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS RECOVERY
FEMALES

GROUP 1 (VEHICLE CONTROL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
109	212	0.88	0.400	2.75	0.63	0.029	0.201	0.065
110	261	0.71	0.403	3.11	0.70	0.030	0.195	0.055
111	255	0.79	0.333	2.78	0.63	0.022	0.158	0.046

GROUP 2 (TELOMER ALCOHOL)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
125	223	0.90	0.370	3.23	0.73	0.035	0.193	0.055
126	220	0.86	0.344	2.83	0.78	0.024	0.140	0.063
127	241	0.83	0.403	2.99	0.64	0.025	0.244	0.074
128	---	---	---	---	---	---	---	---

GROUP 3 (TELOMER ACRYLATE)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
141	212	0.87	0.403	3.15	0.77	0.032	0.202	0.075
142	211	0.88	0.395	2.89	0.66	0.025	0.232	0.065
143	254	0.76	0.363	3.07	0.63	0.026	0.142	0.054

GROUP 4 ()

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
157	219	0.92	0.411	2.76	0.67	0.028	0.272	0.057
158	211	0.92	0.396	3.23	0.77	0.029	0.185	0.079
159	275	0.70	0.370	3.29	0.71	0.023	0.191	0.074

GROUP 5 (PFHS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
173	219	0.85	0.395	3.19	0.80	0.029	0.172	0.056
174	241	0.82	0.383	2.86	0.65	0.028	0.137	0.053
175	219	0.83	0.362	3.02	0.69	0.029	0.163	0.095

ORGAN/BODY WEIGHT RATIOS (%)
AFTER 4 WEEKS RECOVERY
FEMALES

GROUP 6 (PFOS)

ANIMAL NUMBER	BODY W. (GRAM)	BRAIN	HEART	LIVER	KIDNEYS	ADRENALS	SPLEEN	OVARIES
189	201	0.88	0.425	3.84	0.77	0.034	0.241	0.069
190	220	0.87	0.363	3.46	0.82	0.022	0.196	0.065
191	202	0.96	0.407	3.54	0.83	0.027	0.181	0.070

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APPENDIX 1

ProPath GmbH

Pathology Report

**Exploratory 28-Day Oral Toxicity Study with
Telomer Alcohol, Telomer Acrylate, PFHS and
PFOS (positive control)**

by Daily Gavage in the Rat

followed by a 14/28-Day Recovery Period

NOTOX Project 242933

**NOTOX Substances 83484, 83493, 83502, 84456 and 84141
3M Test no. T-7023, T-7024, T-7022, T-7032, T-6295**

This report contains 146 pages

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
Test System : Exploratory 28-Day Gavage Study in Rats
Sponsor : 3M Toxicology Services

NOTOX no. : 242933
Propath no.: 99010
Date : 21.Apr.1999

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/	/PFHS/PFOS	NOTOX no. :	242933
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Sponsor :	3M Toxicology Services	Date :	21.Apr.1999

Authentication

The undersigned hereby declares, that the histopathology data in this report were compiled by him, and that they reflect accurately the primary data records. This report, consisting of 146 pages, was created by the computer system of Propath GmbH.

Jeffrey Th. Wilson
21.04.99

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Summary

Pathomorphologic examination was performed on 168 Sprague Dawley rats (84 males, 84 females) which had been subjected to an exploratory 28-day oral (gavage) toxicity study with the test articles Telomer alcohol/ Telomer acrylate/ /PFHS/ PFOS.

The rats were assigned to six dose groups each containing fourteen males and fourteen females. Test articles were administered once daily by gavage at doses of 30 (telomer alcohol, telomer acrylate and), 10 (PFHS) and 3 mg/kg (PFOS) (dose groups 2, 3, 4, 5 and 6 respectively) for 28 days. The rats of the control group 1 received the vehicle, 1% aqueous carboxymethyl cellulose, alone. At the end of the treatment period eight animals of each sex from all groups were killed and subjected to complete necropsies (main study). Three males and three females from each dose group were subjected to necropsy following 14-day or 28-day treatment-free periods (recovery allocation 1 and 2).

All rats were necropsied. Histopathologic examination was performed on adrenal glands, kidneys, liver, lymph nodes - mandibular and mesenteric, ovaries, pancreas, spleen, testes, thymus and all organs or tissues with macroscopic findings.

All animals survived their allocated treatment periods.

Hepatocellular hypertrophy was present in group 2 (30 mg/kg/day telomer alcohol), group 5 (10 mg/kg/day PFHS) males and in both sexes of group 6 (3 mg/kg/day PFOS) at the end of the main study. In the pancreas a slight increase in the incidence of exocrine apoptosis/single cell necrosis was recorded in group 2 males. Following the recovery periods, the hepatocellular hypertrophy had undergone partial or complete resolution in group 2 and 5 males and in group 6 females. The incidence of pancreas apoptosis/single cell necrosis in group 2 males had also returned to the level of the vehicle control group.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/.../PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Materials and Methods

Study Design

Dose group	Dose mg/kg	Number of rats				Animal numbers					
		males		females		males			females		
		main	rec.1 /2	main	rec.1 /2	main	rec.1	rec.2	main	rec.1	rec.2
1 Vehicle control		8	3/3	8	3/3	1 - 8	9-11	13-15	97-104	105-107	109-111
2 Telomer alcohol	30	8	3/3	8	3/3	17-24	25-27	29-31	113-120	121-123	125-127
3 Telomer acrylate	30	8	3/3	8	3/3	33-40	41-43	45-47	129-136	137-139	141-143
4	30	8	3/3	8	3/3	49-56	57-59	61-63	145-152	153-155	157-159
5 PFHS	10	8	3/3	8	3/3	65-72	73-75	77-79	161-168	169-171	173-175
6 PFOS	3	8	3/3	8	3/3	81-88	89-91	93-95	177-184	185-187	189-191

Administration of the Test Article

The test article was administered daily by gavage for 28 days. The recovery group rats were allowed a 14-day (recovery 1) or 28-day (recovery 2) treatment free period. Rats of the control group 1 received the vehicle, 1% aqueous carboxymethyl cellulose, alone.

Necropsy and Histopathology

At the end of the assigned study periods, the rats were killed by exsanguination following anesthesia by ether vapour. Complete necropsies were performed on all rats. Representative tissue samples of the following organs were preserved in 4% phosphate buffered neutral formaldehyde solution (10% formalin).

Adrenal glands, aorta, bone - sternum and femur including joint; bone marrow - sternal, brain, clitoral glands, epididymides, esophagus, eyes with optic nerve and Harderian glands; heart, kidneys, lacrimal glands - exorbital, large intestine - cecum, colon and rectum; larynx, liver, lungs, lymph nodes - mandibular and mesenteric; female mammary gland area, nasopharynx, ovaries, pancreas, pituitary gland, preputial glands, prostate gland, salivary glands - mandibular and sublingual; sciatic nerve, seminal vesicles, skeletal muscle, skin, small intestine - duodenum, jejunum and ileum with Peyer's patches; spinal cord - cervical, midthoracic and lumbar; spleen, stomach, testes, thymus, thyroid glands with parathyroid glands, tongue, trachea, urinary bladder, uterus with uterine cervix, vagina and all organs or tissues with macroscopic abnormalities.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Materials and Methods

Following fixation, the following organs from all animals, were trimmed, processed and embedded in paraffin wax. Sections were cut at a thickness of 2-4 micrometers and stained with hematoxylin and eosin. Numbers of sections made are given in parentheses.

Adrenal glands (2), kidneys (2), liver (2), lymph nodes - mandibular (2) and mesenteric (1), ovaries (2), pancreas (1), spleen (1), testes (2), thymus (1) and all organs or tissues with macroscopic findings.

Initially sections of the above organs from all main study rats were examined by light microscopy. Following this examination, sections of liver from groups 1 (vehicle control), 2 (telomer alcohol), 5 (PFHS) and 6 (PFOS) males and groups 1 and 6 females recovery allocations 1 and 2 were examined. Sections of pancreas from group 1 and 2 males of recovery allocations 1 and 2 were also examined.

The sections were in February/March, 1999.

Data Compilation

The animal data and macroscopic findings were electronically transferred from the necropsy raw data files of NOTOX into the computer system of Propath GmbH where the microscopic findings were recorded by the undersigned pathologist using on-line input

Macroscopic findings are presented in summary in the table "Incidence of Macroscopic Findings" and in full descriptive terms in the "Individual Animal Data Records". Wherever possible, macroscopic findings were correlated with a microscopic finding.

Microscopic findings are listed for each animal along with severity grades in the table "Individual Microscopic Findings" and summarized in the tables "Incidence of All Microscopic Findings" and "Incidence Table - Selected Microscopic Findings with Grades". They are further given in full descriptive terms in the "Individual Animal Data Records". Histologic changes were described according to their distribution, severity, and morphologic character.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Results

Mortality

A female group 3 rat, no. 129, died at blood sampling on the day of scheduled sacrifice. All other rats survived their assigned study periods.

Macroscopic Findings

The few macroscopic findings recorded at all sacrifices were unremarkable and did not distinguish treated rats from the vehicle control group.

Microscopic Findings

Treatment related microscopic findings were noted in the liver and pancreas. At the end of the main study, midzonal/centrilobular hypertrophy was seen at a minimal or slight degree in six group 2 (telomer alcohol) males, minimal to moderate degrees in all group 5 (PFHS) males and all group 6 (PFOS) rats of both sexes. By the end of the 28-day recovery period (recovery 2) this finding had partially or completely resolved in group 2 and 5 males and in group 6 females, however remained in evidence in group 6 males.

In the pancreas a slight increase in the incidence of minimal or slight degrees of exocrine apoptosis/single cell necrosis was recorded in group 2 males at the end of the main study. The incidence of this finding returned to the level of the vehicle control group following the recovery periods.

The remainder of the microscopic findings recorded at both necropsies, were within the range of background pathology encountered in Sprague Dawley rats of this age and strain and occurred at similar incidences and severity in both control and treated rats.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Conclusions

Morphologic alterations following the administration of Telomer alcohol/Telomer acrylate/ /PFHS/PFOS by once daily gavage to Sprague Dawley rats for twenty eight days, were present in the liver of telomer alcohol, PFHS and PFOS treated rats and in the pancreas of telomer alcohol treated rats.

Hépatocellular hypertrophy was present in group 2 (30 mg/kg/day telomer alcohol), group 5 (10 mg/kg/day PFHS) males and in both sexes of group 6 (3 mg/kg/day PFOS) at the end of the main study. In the pancreas a slight increase in the incidence of exocrine apoptosis/single cell necrosis was recorded in group 2 males. Following the recovery periods, the hepatocellular hypertrophy had undergone partial or complete resolution in group 2 and 5 males and in group 6 females. The incidence of pancreas apoptosis/single cell necrosis in group 2 males had also returned to the level of the vehicle control group.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE//PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Macroscopic Findings

Main Study

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	8	8	8	8	8	8	8	8	8	8	8	8
<u>Lungs</u>												
Hemorrhage	0	0	0	0	1	0	0	0	0	0	0	0
<u>Stomach</u>												
Hemorrhage	0	0	0	0	1	0	0	0	0	0	0	0
<u>Liver</u>												
Enlarged	0	0	0	0	1	0	0	0	0	0	0	0
<u>Kidneys</u>												
Pelvic dilation	0	0	0	0	0	0	0	1	0	0	0	0
<u>Testes</u>												
Reduced in size	0	0	0	0	1	0						
<u>Epididymides</u>												
Reduced in size	0	0	0	0	1	0						
<u>Ovaries</u>												
Watery cyst							1	0	0	0	0	0
<u>Uterus</u>												
Cyst(s)							0	0	0	1	0	0

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Incidence Table - Macroscopic Findings

Recovery Allocation 1

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	3	3	3	3	3	3	3	3	3	3	3	3
<u>Liver</u>												
Accentuated lobular pattern	0	0	0	0	0	1	0	0	0	0	0	0
<u>Testes</u>												
Reduced in size	0	1	0	0	1	0						
<u>Skin</u>												
<u>Alopecia</u>												
general	0	0	0	0	0	0	0	1	0	0	0	0
chest region	1	0	0	0	0	0	0	0	0	0	0	0
<u>Scab formation</u>												
abdominal region	0	0	0	0	0	0	1	0	0	0	0	0

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Incidence Table - Macroscopic Findings

Recovery Allocation 2

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	3	3	3	3	3	3	3	3	4	3	3	3
<u>Eyes</u>												
Reduced in size lens	0	0	0	1	0	0	0	0	0	0	0	0

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Selected Microscopic Findings with Grades

Main Study

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	8	8	8	8	8	8	8	8	8	8	8	8
<u>Liver</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Midzonal/ centrilobular hypertrophy, diffuse												
(minimal)	0	5	0	0	0	0	0	0	0	0	0	1
(slight)	0	1	0	0	2	2	0	0	0	0	0	4
(moderate)	0	0	0	0	6	6	0	0	0	0	0	3
Total	0	6	0	0	8	8	0	0	0	0	0	8
<u>Pancreas</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Apoptosis/single cell necrosis, exocrine												
(minimal)	1	4	2	0	2	1	2	0	0	0	1	0
(slight)	1	2	0	1	0	1	0	0	0	0	0	0
Total	2	6	2	1	2	2	2	0	0	0	1	0

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ //PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Incidence Table - Selected Microscopic Findings with Grades

Recovery Allocation 1

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	3	3	3	3	3	3	3	3	3	3	3	3
Liver												
number examined	3	3			3	3	3					3
Midzonal/ centrilobular hypertrophy, diffuse												
(minimal)	0	1			1	0	0					1
(slight)	0	0			1	1	0					0
(moderate)	0	0			0	2	0					0
Total	0	1			2	3	0					1

Recovery Allocation 2

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	3	3	3	3	3	3	3	3	3	3	3	3
Liver												
number examined	3	3			3	3	3					3
Midzonal/ centrilobular hypertrophy, diffuse												
(minimal)	0	1			0	1	0					1
(slight)	0	0			0	1	0					0
(moderate)	0	0			0	1	0					0
Total	0	1			0	3	0					1
Pancreas												
number examined	3	3										
Apoptosis/single cell necrosis, exocrine (minimal)	1	0										

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/. /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Microscopic Findings

Main Study

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	8	8	8	8	8	8	8	8	8	8	8	8
<u>Lungs</u>												
number examined					1							
Intra-alveolar blood, necropsy artefact					1							
Vascular mineralisation, focal					1							
<u>Stomach</u>												
number examined					1							
<u>Liver</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Inflammatory cell foci	8	8	8	8	8	8	8	8	8	8	8	8
Single cell necrosis	6	6	6	3	6	6	7	6	5	3	5	4
Midzonal/ centrilobular hypertrophy, diffuse	0	6	0	0	8	8	0	0	0	0	0	8
Hepatocellular vacuolation	1	0	0	0	3	4	1	0	1	0	1	0
Hematopoietic cell foci	3	0	0	0	0	1	0	0	0	1	0	0
Coagulative necrosis, focal	0	0	0	0	1	0	0	0	0	0	0	0
<u>Pancreas</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Apoptosis/single cell necrosis, exocrine	2	6	2	1	2	2	2	0	0	0	1	0
Exocrine atrophy, focal	0	1	1	0	0	0	0	0	1	0	0	0

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Microscopic Findings

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	8	8	8	8	8	8	8	8	8	8	8	8
Pancreas												
Inflammation, mixed granulocytic/ lymphocytic	0	0	0	0	1	0	0	0	0	0	0	0
Kidneys												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Tubular atrophy, cortical	3	5	5	3	4	6	4	1	2	1	0	5
Interstitial inflammation, lymphocytic	3	1	2	1	3	2	0	0	2	1	0	3
Hyaline cast(s)	1	1	0	2	0	2	0	0	0	0	0	0
Tubular mineralization	0	1	0	0	0	0	1	0	0	0	0	0
Pelvic inflammation, lymphoid	0	0	1	0	0	0	0	0	0	0	0	0
Pelvic dilation	0	0	0	0	0	0	0	1	0	0	0	0
Cystic tubules	0	0	0	0	1	1	0	0	0	1	1	0
Pelvic mineralization	0	1	0	0	0	0	1	0	0	0	0	0
Tubular epithelial hypertrophy, focal	0	0	0	0	0	0	0	0	0	0	1	0
Testes												
number examined	8	8	8	8	8	8						
Spermatidic giant cell(s)	1	0	0	0	0	1						
Seminiferous tubular atrophy	1	0	0	0	1	0						

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/.../PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Microscopic Findings

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	8	8	8	8	8	8	8	8	8	8	8	8
<u>Epididymides</u>												
number examined					1							
Atrophy					1							
Aspermia					1							
<u>Ovaries</u>												
number examined							8	8	8	8	8	8
<u>Uterus</u>												
number examined										1		
Cyst(s)										1		
<u>Adrenal Glands</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Extracapsular nodule	0	0	0	1	1	0	0	1	1	0	1	1
Vacuolation, multifocal in z. fasciculata	0	0	0	0	0	2	0	0	0	0	0	0
Atrophy, cortical diffuse	0	0	0	0	0	1	0	0	0	0	0	0
<u>Spleen</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Hemopoiesis, primarily erythropoiesis	8	8	8	8	8	8	7	8	8	5	8	5
Hemosiderin pigment	6	7	5	7	4	4	8	8	8	8	8	8
<u>Thymus</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Lymphoid atrophy - involution	0	0	1	1	0	2	1	1	3	1	1	1

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Microscopic Findings

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	8	8	8	8	8	8	8	8	8	8	8	8
Thymus												
Lymphocytolysis, increased	0	0	1	1	0	0	0	1	1	1	1	0
Mesenteric Lymph Node												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Congestion/ erythrophagocytosis	0	1	0	1	0	0	0	0	0	0	0	0
<u>Mandibular Lymph Node</u>												
number examined	8	8	8	8	8	8	8	8	8	8	8	8
Plasmacytosis	5	6	3	2	4	2	0	3	2	1	1	2
Lymphoid hyperplasia	2	0	0	1	0	0	1	1	2	3	1	0
Congestion/ erythrophagocytosis	0	0	1	1	2	0	0	0	0	0	0	0

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ //PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Incidence Table - Microscopic Findings

Recovery Allocation 1

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	3	3	3	3	3	3	3	3	3	3	3	3
<u>Liver</u>												
number examined	3	3			3	3	3					3
Inflammatory cell foci	3	3			3	3	3					3
Single cell necrosis	2	3			3	2	2					1
Midzonal/ centrilobular hypertrophy, diffuse	0	1			2	3	0					1
Hepatocellular vacuolation	1	0			0	3	1					0
Hematopoietic cell foci	0	1			0	0	0					0
<u>Pancreas</u>												
number examined	3	3										
Exocrine atrophy, focal	0	1										
<u>Testes</u>												
number examined		1				1						
Seminiferous tubular atrophy		1				1						
<u>Skin</u>												
number examined							1	1				
Inflammation, exudative							1	0				

000324

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE//PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Incidence Table - Microscopic Findings

Recovery Allocation 2

SEX: DOSE GROUP:	MALE						FEMALE					
	1	2	3	4	5	6	1	2	3	4	5	6
number of animals	3	3	3	3	3	3	3	3	3	3	3	3
Liver												
number examined	3	3			3	3	3					3
Inflammatory cell foci	3	3			3	3	3					3
Single cell necrosis	2	2			2	2	1					2
Midzonal/ centrilobular hypertrophy, diffuse	0	1			0	3	0					1
Hepatocellular vacuolation	1	0			1	1	0					0
Coagulative necrosis, focal	0	1			0	0	0					0
Pancreas												
number examined	3	3										
Apoptosis/single cell necrosis, exocrine	1	0										
Eyes												
number examined					1							
Periorbital inflammation due to blood sampling					1							

000325

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Codes and symbols in table heading:

m Males
f Females

Codes and symbols in animal lines:

p Planned sacrifice (main study)
r Recovery 1 (planned sacrifice)
s Recovery 2 (planned sacrifice)
o Other

Grading system used in finding lines:

0 finding not present
1 minimal
2 slight
3 moderate
4 severe
5 very severe
x present

Only organs/groups with findings are listed in the table

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 1

	1	2	3	4	5	6	7	8
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	2	2	2	1	1	2	2
Single cell necrosis	0	1	1	1	1	1	2	0
Hepatocellular vacuolation	0	0	0	0	0	0	1	0
Hematopoietic cell foci	1	0	1	0	0	0	1	0
Pancreas								
Apoptosis/single cell necrosis, exocrine	0	0	1	0	2	0	0	0
Kidneys								
Tubular atrophy, cortical	0	0	0	1	0	1	0	1
Interstitial inflammation, lymphocytic	0	0	0	0	1	1	0	1
Hyaline cast(s)	0	0	0	0	0	0	1	0
Testes								
Spermatidic giant cell(s)	0	1	0	0	0	0	0	0
Seminiferous tubular atrophy	0	1	0	0	0	0	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	2	2	2	1	1	1	2	1
Hemosiderin pigment	0	1	1	1	2	2	1	0
Mandibular Lymph Node								
Plasmacytosis	2	2	2	2	0	3	0	0
Lymphoid hyperplasia	0	2	2	0	0	0	0	0

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings**Males, Dose group 1**

	9	10	11	13	14	15
	m	m	m	m	m	m
necropsy status	r	r	r	s	s	s
Liver						
Inflammatory cell foci	2	3	2	2	2	2
Single cell necrosis	0	2	1	1	1	0
Hepatocellular vacuolation	0	0	1	1	0	0
Pancreas						
Apoptosis/single cell necrosis, exocrine	0	0	0	0	0	1

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 2

	17	18	19	20	21	22	23	24
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	1	2	1	2	2	2	2	2
Single cell necrosis	1	0	0	1	1	1	1	1
Midzonal/centrilobular hypertrophy, diffuse	0	1	1	1	1	2	0	1
Pancreas								
Apoptosis/single cell necrosis, exocrine	2	1	0	1	0	2	1	1
Exocrine atrophy, focal	0	0	0	0	0	0	0	1
Kidneys								
Tubular atrophy, cortical	2	1	0	1	1	1	0	0
Interstitial inflammation, lymphocytic	0	0	0	0	1	0	0	0
Hyaline cast(s)	0	0	0	0	1	0	0	0
Tubular mineralization	0	1	0	0	0	0	0	0
Pelvic mineralization	0	1	0	0	0	0	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	1	1	1	2	1	2
Hemosiderin pigment	0	1	1	2	1	1	1	1
Mesenteric Lymph Node								
Congestion/erythrophagocytosis	0	0	1	0	0	0	0	0
Mandibular Lymph Node								
Plasmacytosis	2	3	2	0	2	0	2	2

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 2

	25	26	27	29	30	31
	m	m	m	m	m	m
necropsy status	r	r	r	s	s	s
Liver						
Inflammatory cell foci	2	3	3	2	2	2
Single cell necrosis	1	1	1	0	1	1
Midzonal/centrilobular hypertrophy, diffuse	0	1	0	1	0	0
Hematopoietic cell foci	1	0	0	0	0	0
Coagulative necrosis, focal	0	0	0	0	1	0
Pancreas						
Exocrine atrophy, focal	0	0	1	0	0	0
Testes						
Seminiferous tubular atrophy			4			

000330

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 3

	33	34	35	36	37	38	39	40
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	1	1	2	3	2	2	2
Single cell necrosis	1	1	0	1	1	1	1	0
Pancreas								
Apoptosis/single cell necrosis, exocrine	1	0	0	0	0	0	1	0
Exocrine atrophy, focal	0	0	0	0	0	0	1	0
Kidneys								
Tubular atrophy, cortical	1	0	0	1	1	0	1	1
Interstitial inflammation, lymphocytic	0	1	0	1	0	0	0	0
Pelvic inflammation, lymphoid	0	0	0	0	0	0	1	0
Spleen								
Hemopoiesis, primarily erythropoiesis	2	1	1	1	2	2	2	1
Hemosiderin pigment	1	0	0	0	1	1	1	1
Thymus								
Lymphoid atrophy - involution	0	0	0	0	0	1	0	0
Lymphocytolysis, increased	0	0	0	0	0	0	0	2
Mandibular Lymph Node								
Plasmacytosis	0	2	0	0	2	2	0	0
Congestion/erythrophagocytosis	0	0	0	0	0	0	0	3

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ //PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 4

	49	50	51	52	53	54	55	56
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	1	1	1	2	2	2	1
Single cell necrosis	1	1	0	0	0	1	0	0
Pancreas								
Apoptosis/single cell necrosis, exocrine	0	0	0	0	0	0	2	0
Kidneys								
Tubular atrophy, cortical	1	0	0	0	1	0	0	1
Interstitial inflammation, lymphocytic	0	0	0	0	1	0	0	0
Hyaline cast(s)	0	0	0	0	0	1	0	1
Adrenal Glands								
Extracapsular nodule	0	0	0	0	0	0	0	x
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	2	1	2	1	2	1
Hemosiderin pigment	0	1	1	1	1	1	1	1
Thymus								
Lymphoid atrophy - involution	0	0	0	0	0	0	0	1
Lymphocytolysis, increased	0	0	0	0	0	0	0	2
Mesenteric Lymph Node								
Congestion/erythrophagocytosis	0	0	0	1	0	0	0	0
Mandibular Lymph Node								
Plasmacytosis	0	0	0	2	0	0	2	0
Lymphoid hyperplasia	0	0	0	2	0	0	0	0
Congestion/erythrophagocytosis	0	0	0	2	0	0	0	0

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE//PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 4

	57	58	59	61	62	63
	m	m	m	m	m	m
necropsy status	r	r	r	s	s	s

Eyes

Periorbital inflammation due to blood sampling	3
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000333

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 5

	65	66	67	68	69	70	71	72
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Lungs								
Intra-alveolar blood, necropsy artefact		x						
Vascular mineralisation, focal		1						
Liver								
Inflammatory cell foci	2	1	2	2	2	2	2	2
Single cell necrosis	1	0	1	0	1	1	1	1
Midzonal/centrilobular hypertrophy, diffuse	3	3	3	3	3	2	2	3
Hepatocellular vacuolation	2	0	1	0	0	0	0	1
Coagulative necrosis, focal	0	0	1	0	0	0	0	0
Pancreas								
Apoptosis/single cell necrosis, exocrine	0	1	0	1	0	0	0	0
Inflammation, mixed granulocytic/lymphocytic	0	0	0	0	0	1	0	0
Kidneys								
Tubular atrophy, cortical	1	1	1	1	0	0	0	0
Interstitial inflammation, lymphocytic	0	0	0	1	1	1	0	0
Cystic tubules	0	0	0	0	0	0	2	0
Testes								
Seminiferous tubular atrophy	0	4	0	0	0	0	0	0
Epididymides								
Atrophy		3						
Aspermia		x						

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
Test System : Exploratory 28-Day Gavage Study in Rats
Sponsor : 3M Toxicology Services

NOTOX no. : 242933
Propath no.: 99010
Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 5

	65	66	67	68	69	70	71	72
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Adrenal Glands								
Extracapsular nodule	0	0	0	0	x	0	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	2	1	2	1	1	2	1	2
Hemosiderin pigment	0	1	0	2	0	0	1	2
Mandibular Lymph Node								
Plasmacytosis	0	3	2	0	0	0	2	2
Congestion/erythrophagocytosis	0	1	0	0	0	0	0	2

000335

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 5

	73	74	75	77	78	79
	m	m	m	m	m	m
necropsy status	r	r	r	s	s	s
Liver						
Inflammatory cell foci	3	2	2	2	2	2
Single cell necrosis	2	1	1	1	1	0
Midzonal/centrilobular hypertrophy, diffuse	2	0	1	0	0	0
Hepatocellular vacuolation	0	0	0	0	0	1
Testes						
Seminiferous tubular atrophy		3				

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 6

	81	82	83	84	85	86	87	88
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	2	2	2	1	2	2	2
Single cell necrosis	1	0	1	1	0	1	1	1
Midzonal/centrilobular hypertrophy, diffuse	2	3	3	3	3	2	3	3
Hepatocellular vacuolation	0	1	1	0	0	1	2	0
Hematopoietic cell foci	1	0	0	0	0	0	0	0
Pancreas								
Apoptosis/single cell necrosis, exocrine	0	2	0	0	0	0	0	1
Kidneys								
Tubular atrophy, cortical	1	1	0	1	1	1	1	0
Interstitial inflammation, lymphocytic	0	0	2	1	0	0	0	0
Hyaline cast(s)	0	0	0	0	0	1	1	0
Cystic tubules	0	0	2	0	0	0	0	0
Testes								
Spermatidic giant cell(s)	0	0	1	0	0	0	0	0
Adrenal Glands								
Vacuolation, multifocal in z. fasciculata	0	0	0	0	0	1	0	1
Atrophy, cortical diffuse	0	0	0	2	0	0	0	0

000337

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
Test System : Exploratory 28-Day Gavage Study in Rats
Sponsor : 3M Toxicology Services

NOTOX no. : 242933
Propath no.: 99010
Date : 21.Apr.1999

Individual Animal Microscopic Findings**Males, Dose group 6**

	81	82	83	84	85	86	87	88
	m	m	m	m	m	m	m	m
necropsy status	P	P	P	P	P	P	P	P
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	1	1	1	2	1	1
Hemosiderin pigment	1	1	1	0	0	0	0	1
Thymus								
Lymphoid atrophy - involution	0	0	0	0	0	2	0	1
Mandibular Lymph Node								
Plasmacytosis	3	0	0	2	0	0	0	0

000338

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Males, Dose group 6

	89	90	91	93	94	95
	m	m	m	m	m	m
necropsy status	r	r	r	s	s	s
Liver						
Inflammatory cell foci	2	2	2	1	2	2
Single cell necrosis	1	1	0	1	0	1
Midzonal/centrilobular hypertrophy, diffuse	2	3	3	1	3	2
Hepatocellular vacuolation	1	2	2	0	1	0

000339

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
Test System : Exploratory 28-Day Gavage Study in Rats
Sponsor : 3M Toxicology Services

NOTOX no. : 242933
Propath no.: 99010
Date : 21.Apr.1999

Individual Animal Microscopic Findings**Females, Dose group 1**

	97	98	99	100	101	102	103	104
	f	f	f	f	f	f	f	f
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	1	2	1	2	2	2	1
Single cell necrosis	1	0	1	1	1	1	1	1
Hepatocellular vacuolation	0	0	0	0	0	0	0	1
Pancreas								
Apoptosis/single cell necrosis, exocrine	0	1	1	0	0	0	0	0
Kidneys								
Tubular atrophy, cortical	1	0	0	1	0	1	0	1
Tubular mineralization	0	0	0	0	1	0	0	0
Pelvic mineralization	0	1	0	0	0	0	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	1	1	0	1	1	1
Hemosiderin pigment	3	2	2	2	3	3	2	2
Thymus								
Lymphoid atrophy - involution	0	0	0	0	0	0	1	0
Mandibular Lymph Node								
Lymphoid hyperplasia	0	0	0	0	2	0	0	0

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 1

	105	106	107	109	110	111
	f	f	f	f	f	f
necropsy status	r	r	r	s	s	s
Liver						
Inflammatory cell foci	2	2	2	2	2	1
Single cell necrosis	1	1	0	1	0	0
Hepatocellular vacuolation	0	2	0	0	0	0
Skin						
Inflammation, exudative	2					

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 2

	113	114	115	116	117	118	119	120
	f	f	f	f	f	f	f	f
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	2	1	1	1	1	1	2
Single cell necrosis	1	1	0	1	0	1	1	1
Kidneys								
Tubular atrophy, cortical	0	0	0	0	0	0	1	0
Pelvic dilation	0	0	0	0	x	0	0	0
Adrenal Glands								
Extracapsular nodule	0	0	0	0	x	0	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	1	1	1	1	1	1
Hemosiderin pigment	2	2	2	2	2	2	3	2
Thymus								
Lymphoid atrophy - involution	0	0	0	0	0	1	0	0
Lymphocytolysis, increased	0	0	0	0	0	0	1	0
Mandibular Lymph Node								
Plasmacytosis	2	2	0	0	0	3	0	0
Lymphoid hyperplasia	2	0	0	0	0	0	0	0

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE//PFHS/PFOS NOTOX no. : 242933
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 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 3

	129 f	130 f	131 f	132 f	133 f	134 f	135 f	136 f
necropsy status	o	p	p	p	p	p	p	p
Liver								
Inflammatory cell foci	2	2	1	1	2	1	1	2
Single cell necrosis	1	1	1	0	2	0	0	1
Hepatocellular vacuolation	0	1	0	0	0	0	0	0
Pancreas								
Exocrine atrophy, focal	0	0	0	1	0	0	0	0
Kidneys								
Tubular atrophy, cortical	0	1	0	0	0	1	0	0
Interstitial inflammation, lymphocytic	0	0	0	0	0	1	0	1
Adrenal Glands								
Extracapsular nodule	0	0	0	0	0	0	0	x
Spleen								
Hemopoiesis, primarily erythropoiesis	2	1	1	1	2	1	1	1
Hemosiderin pigment	1	2	2	1	2	2	2	3
Thymus								
Lymphoid atrophy - involution	0	1	0	0	1	0	0	1
Lymphocytolysis, increased	0	0	0	0	0	1	0	0
Mandibular Lymph Node								
Plasmacytosis	0	0	0	0	0	0	2	2
Lymphoid hyperplasia	0	0	0	0	0	0	2	2

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS
 Test System : Exploratory 28-Day Gavage Study in Rats
 Sponsor : 3M Toxicology Services

NOTOX no. : 242933
 Propath no.: 99010
 Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 4

	145	146	147	148	149	150	151	152
	f	f	f	f	f	f	f	f
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	1	2	1	2	2	2	2	1
Single cell necrosis	0	1	1	0	0	0	0	1
Hematopoietic cell foci	0	0	0	0	0	1	0	0
Kidneys								
Tubular atrophy, cortical	0	0	0	0	0	0	0	1
Interstitial inflammation, lymphocytic	0	0	0	1	0	0	0	0
Cystic tubules	0	0	2	0	0	0	0	0
Uterus								
Cyst(s)							x	
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	0	1	1	0	0	1
Hemosiderin pigment	2	2	2	2	2	3	2	2
Thymus								
Lymphoid atrophy - involution	0	0	0	0	0	0	0	1
Lymphocytolysis, increased	0	0	0	1	0	0	0	0
Mandibular Lymph Node								
Plasmacytosis	0	0	0	0	0	2	0	0
Lymphoid hyperplasia	2	0	2	0	0	2	0	0

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 5

	161 f	162 f	163 f	164 f	165 f	166 f	167 f	168 f
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	2	3	2	1	1	1	1
Single cell necrosis	0	1	1	0	1	0	1	1
Hepatocellular vacuolation	0	0	0	0	0	0	0	1
Pancreas								
Apoptosis/single cell necrosis, exocrine	0	0	0	0	1	0	0	0
Kidneys								
Cystic tubules	0	0	0	0	0	0	0	1
Tubular epithelial hypertrophy, focal	1	0	0	0	0	0	0	0
Adrenal Glands								
Extracapsular nodule	0	0	0	0	0	x	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	1	1	2	1	1	1	1	1
Hemosiderin pigment	2	2	2	2	2	2	2	3
Thymus								
Lymphoid atrophy - involution	0	0	0	2	0	0	0	0
Lymphocytolysis, increased	0	0	1	0	0	0	0	0
Mandibular Lymph Node								
Plasmacytosis	0	0	2	0	0	0	0	0
Lymphoid hyperplasia	0	0	0	0	0	2	0	0

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 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 6

	177 f	178 f	179 f	180 f	181 f	182 f	183 f	184 f
necropsy status	P	P	P	P	P	P	P	P
Liver								
Inflammatory cell foci	2	1	2	2	1	1	1	1
Single cell necrosis	1	0	1	0	1	0	1	0
Midzonal/centrilobular hypertrophy, diffuse	2	2	3	1	2	3	3	2
Kidneys								
Tubular atrophy, cortical	1	1	0	0	1	1	0	1
Interstitial inflammation, lymphocytic	0	1	0	1	0	0	1	0
Adrenal Glands								
Extracapsular nodule	x	0	0	0	0	0	0	0
Spleen								
Hemopoiesis, primarily erythropoiesis	1	0	0	1	1	1	0	1
Hemosiderin pigment	2	1	3	2	3	2	2	2
Thymus								
Lymphoid atrophy - involution	1	0	0	0	0	0	0	0
Mandibular Lymph Node								
Plasmacytosis	0	0	0	0	0	2	2	0

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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Microscopic Findings

Females, Dose group 6

	185	186	187	189	190	191
	f	f	f	f	f	f
necropsy status	r	r	r	s	s	s
Liver						
Inflammatory cell foci	1	1	2	2	1	1
Single cell necrosis	0	0	1	1	1	0
Midzonal/centrilobular hypertrophy, diffuse	0	1	0	0	0	1

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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Animal Data List

Males

ANIMAL NUMBER	SEX M/F	FINAL STATE	TEST DAYS	FIRST DAY	LAST DAY	DATE NECROPSY
DOSE GROUP 1						
1	m	p	28	06/10/98	02/11/98	03/11/98
2	m	p	28	06/10/98	02/11/98	03/11/98
3	m	p	28	06/10/98	02/11/98	03/11/98
4	m	p	28	06/10/98	02/11/98	03/11/98
5	m	p	29	06/10/98	03/11/98	04/11/98
6	m	p	29	06/10/98	03/11/98	04/11/98
7	m	p	29	06/10/98	03/11/98	04/11/98
8	m	p	29	06/10/98	03/11/98	04/11/98
9	m	r	29	06/10/98	03/11/98	18/11/98
10	m	r	29	06/10/98	03/11/98	18/11/98
11	m	r	29	06/10/98	03/11/98	18/11/98
13	m	s	29	06/10/98	03/11/98	02/12/98
14	m	s	29	06/10/98	03/11/98	02/12/98
15	m	s	29	06/10/98	03/11/98	02/12/98
DOSE GROUP 2						
17	m	p	28	06/10/98	02/11/98	03/11/98
18	m	p	28	06/10/98	02/11/98	03/11/98
19	m	p	28	06/10/98	02/11/98	03/11/98
20	m	p	28	06/10/98	02/11/98	03/11/98
21	m	p	29	06/10/98	03/11/98	04/11/98
22	m	p	29	06/10/98	03/11/98	04/11/98
23	m	p	29	06/10/98	03/11/98	04/11/98
24	m	p	29	06/10/98	03/11/98	04/11/98
25	m	r	29	06/10/98	03/11/98	18/11/98
26	m	r	29	06/10/98	03/11/98	18/11/98
27	m	r	29	06/10/98	03/11/98	18/11/98
29	m	s	29	06/10/98	03/11/98	02/12/98
30	m	s	29	06/10/98	03/11/98	02/12/98
31	m	s	29	06/10/98	03/11/98	02/12/98
DOSE GROUP 3						
33	m	p	28	06/10/98	02/11/98	03/11/98
34	m	p	28	06/10/98	02/11/98	03/11/98
35	m	p	28	06/10/98	02/11/98	03/11/98
36	m	p	28	06/10/98	02/11/98	03/11/98
37	m	p	29	06/10/98	03/11/98	04/11/98
38	m	p	29	06/10/98	03/11/98	04/11/98
39	m	p	29	06/10/98	03/11/98	04/11/98
40	m	p	29	06/10/98	03/11/98	04/11/98
41	m	r	29	06/10/98	03/11/98	18/11/98
42	m	r	29	06/10/98	03/11/98	18/11/98
43	m	r	29	06/10/98	03/11/98	18/11/98
45	m	s	29	06/10/98	03/11/98	02/12/98
46	m	s	29	06/10/98	03/11/98	02/12/98
47	m	s	29	06/10/98	03/11/98	02/12/98

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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Animal Data List

Males

ANIMAL NUMBER	SEX M/F	FINAL STATE	TEST DAYS	FIRST DAY	LAST DAY	DATE NECROPSY
DOSE GROUP 4						
49	m	p	28	06/10/98	02/11/98	03/11/98
50	m	p	28	06/10/98	02/11/98	03/11/98
51	m	p	28	06/10/98	02/11/98	03/11/98
52	m	p	28	06/10/98	02/11/98	03/11/98
53	m	p	29	06/10/98	03/11/98	04/11/98
54	m	p	29	06/10/98	03/11/98	04/11/98
55	m	p	29	06/10/98	03/11/98	04/11/98
56	m	p	29	06/10/98	03/11/98	04/11/98
57	m	r	29	06/10/98	03/11/98	18/11/98
58	m	r	29	06/10/98	03/11/98	18/11/98
59	m	r	29	06/10/98	03/11/98	18/11/98
61	m	s	29	06/10/98	03/11/98	02/12/98
62	m	s	29	06/10/98	03/11/98	02/12/98
63	m	s	29	06/10/98	03/11/98	02/12/98
DOSE GROUP 5						
65	m	p	28	06/10/98	02/11/98	03/11/98
66	m	p	28	06/10/98	02/11/98	03/11/98
67	m	p	28	06/10/98	02/11/98	03/11/98
68	m	p	28	06/10/98	02/11/98	03/11/98
69	m	p	29	06/10/98	03/11/98	04/11/98
70	m	p	29	06/10/98	03/11/98	04/11/98
71	m	p	29	06/10/98	03/11/98	04/11/98
72	m	p	29	06/10/98	03/11/98	04/11/98
73	m	r	29	06/10/98	03/11/98	18/11/98
74	m	r	29	06/10/98	03/11/98	18/11/98
75	m	r	29	06/10/98	03/11/98	18/11/98
77	m	s	29	06/10/98	03/11/98	02/12/98
78	m	s	29	06/10/98	03/11/98	02/12/98
79	m	s	29	06/10/98	03/11/98	02/12/98
DOSE GROUP 6						
81	m	p	28	06/10/98	02/11/98	03/11/98
82	m	p	28	06/10/98	02/11/98	03/11/98
83	m	p	28	06/10/98	02/11/98	03/11/98
84	m	p	28	06/10/98	02/11/98	03/11/98
85	m	p	29	06/10/98	03/11/98	04/11/98
86	m	p	29	06/10/98	03/11/98	04/11/98
87	m	p	29	06/10/98	03/11/98	04/11/98
88	m	p	29	06/10/98	03/11/98	04/11/98
89	m	r	29	06/10/98	03/11/98	18/11/98
90	m	r	29	06/10/98	03/11/98	18/11/98
91	m	r	29	06/10/98	03/11/98	18/11/98
93	m	s	29	06/10/98	03/11/98	02/12/98
94	m	s	29	06/10/98	03/11/98	02/12/98
95	m	s	29	06/10/98	03/11/98	02/12/98

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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Animal Data List

Females

ANIMAL NUMBER	SEX M/F	FINAL STATE	TEST DAYS	FIRST DAY	LAST DAY	DATE NECROPSY
DOSE GROUP 1						
97	f	p	28	08/10/98	04/11/98	05/11/98
98	f	p	28	08/10/98	04/11/98	05/11/98
99	f	p	28	08/10/98	04/11/98	05/11/98
100	f	p	28	08/10/98	04/11/98	05/11/98
101	f	p	29	08/10/98	05/11/98	06/11/98
102	f	p	29	08/10/98	05/11/98	06/11/98
103	f	p	29	08/10/98	05/11/98	06/11/98
104	f	p	29	08/10/98	05/11/98	06/11/98
105	f	r	29	08/10/98	05/11/98	20/11/98
106	f	r	29	08/10/98	05/11/98	20/11/98
107	f	r	29	08/10/98	05/11/98	20/11/98
109	f	s	29	08/10/98	05/11/98	04/12/98
110	f	s	29	08/10/98	05/11/98	04/12/98
111	f	s	29	08/10/98	05/11/98	04/12/98
DOSE GROUP 2						
113	f	p	28	08/10/98	04/11/98	05/11/98
114	f	p	28	08/10/98	04/11/98	05/11/98
115	f	p	28	08/10/98	04/11/98	05/11/98
116	f	p	28	08/10/98	04/11/98	05/11/98
117	f	p	29	08/10/98	05/11/98	06/11/98
118	f	p	29	08/10/98	05/11/98	06/11/98
119	f	p	29	08/10/98	05/11/98	06/11/98
120	f	p	29	08/10/98	05/11/98	06/11/98
121	f	r	29	08/10/98	05/11/98	20/11/98
122	f	r	29	08/10/98	05/11/98	20/11/98
123	f	r	29	08/10/98	05/11/98	20/11/98
125	f	s	29	08/10/98	05/11/98	04/12/98
126	f	s	29	08/10/98	05/11/98	04/12/98
127	f	s	29	08/10/98	05/11/98	04/12/98
DOSE GROUP 3						
129	f	o	28	08/10/98	04/11/98	05/11/98
130	f	p	28	08/10/98	04/11/98	05/11/98
131	f	p	28	08/10/98	04/11/98	05/11/98
132	f	p	28	08/10/98	04/11/98	05/11/98
133	f	p	29	08/10/98	05/11/98	06/11/98
134	f	p	29	08/10/98	05/11/98	06/11/98
135	f	p	29	08/10/98	05/11/98	06/11/98
136	f	p	29	08/10/98	05/11/98	06/11/98
137	f	r	29	08/10/98	05/11/98	20/11/98
138	f	r	29	08/10/98	05/11/98	20/11/98
139	f	r	29	08/10/98	05/11/98	20/11/98
141	f	s	29	08/10/98	05/11/98	04/12/98
142	f	s	29	08/10/98	05/11/98	04/12/98
143	f	s	29	08/10/98	05/11/98	04/12/98

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Animal Data List

Females

ANIMAL NUMBER	SEX M/F	FINAL STATE	TEST DAYS	FIRST DAY	LAST DAY	DATE NECROPSY
DOSE GROUP 4						
145	f	p	28	08/10/98	04/11/98	05/11/98
146	f	p	28	08/10/98	04/11/98	05/11/98
147	f	p	28	08/10/98	04/11/98	05/11/98
148	f	p	28	08/10/98	04/11/98	05/11/98
149	f	p	29	08/10/98	05/11/98	06/11/98
150	f	p	29	08/10/98	05/11/98	06/11/98
151	f	p	29	08/10/98	05/11/98	06/11/98
152	f	p	29	08/10/98	05/11/98	06/11/98
153	f	r	29	08/10/98	05/11/98	20/11/98
154	f	r	29	08/10/98	05/11/98	20/11/98
155	f	r	29	08/10/98	05/11/98	20/11/98
157	f	s	29	08/10/98	05/11/98	04/12/98
158	f	s	29	08/10/98	05/11/98	04/12/98
159	f	s	29	08/10/98	05/11/98	04/12/98
DOSE GROUP 5						
161	f	p	28	08/10/98	04/11/98	05/11/98
162	f	p	28	08/10/98	04/11/98	05/11/98
163	f	p	28	08/10/98	04/11/98	05/11/98
164	f	p	28	08/10/98	04/11/98	05/11/98
165	f	p	29	08/10/98	05/11/98	06/11/98
166	f	p	29	08/10/98	05/11/98	06/11/98
167	f	p	29	08/10/98	05/11/98	06/11/98
168	f	p	29	08/10/98	05/11/98	06/11/98
169	f	r	29	08/10/98	05/11/98	20/11/98
170	f	r	29	08/10/98	05/11/98	20/11/98
171	f	r	29	08/10/98	05/11/98	20/11/98
173	f	s	29	08/10/98	05/11/98	04/12/98
174	f	s	29	08/10/98	05/11/98	04/12/98
175	f	s	29	08/10/98	05/11/98	04/12/98
DOSE GROUP 6						
177	f	p	28	08/10/98	04/11/98	05/11/98
178	f	p	28	08/10/98	04/11/98	05/11/98
179	f	p	28	08/10/98	04/11/98	05/11/98
180	f	p	28	08/10/98	04/11/98	05/11/98
181	f	p	29	08/10/98	05/11/98	06/11/98
182	f	p	29	08/10/98	05/11/98	06/11/98
183	f	p	29	08/10/98	05/11/98	06/11/98
184	f	p	29	08/10/98	05/11/98	06/11/98
185	f	r	29	08/10/98	05/11/98	20/11/98
186	f	r	29	08/10/98	05/11/98	20/11/98
187	f	r	29	08/10/98	05/11/98	20/11/98
189	f	s	29	08/10/98	05/11/98	04/12/98
190	f	s	29	08/10/98	05/11/98	04/12/98
191	f	s	29	08/10/98	05/11/98	04/12/98

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 1
SEX: Male
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Hematopoietic cell foci (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)
Mandibular Lymph Node/ 2	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Testes/1, Testes/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node.

Animal No: 2

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 2
SEX: Male
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Testes/1	Seminiferous tubular atrophy (minimal)
Testes/2	Spermatidic giant cell(s) (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight) Lymphoid hyperplasia (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/2.

Animal No: 3

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Hematopoietic cell foci (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight) Lymphoid hyperplasia (slight)

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 3
SEX: Male
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS
(continued)

Mandibular Lymph Node/
2

Plasmacytosis (slight)

No abnormalities found in: Kidney/1, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node.

Animal No: 4

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Kidney/1

Tubular atrophy, cortical (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (minimal)

Mandibular Lymph Node/
1

Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 5
SEX: Male
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (slight)
Kidney/1	Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Kidney/2, Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 6

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 6
SEX: Male
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Kidney/1	Tubular atrophy, cortical (minimal) Interstitial inflammation, lymphocytic (minimal)
Kidney/2	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Mandibular Lymph Node/ 1	Plasmacytosis (moderate)
Mandibular Lymph Node/ 2	Plasmacytosis (moderate)

No abnormalities found in: Pancreas, Testes/1,
Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node.

Animal No: 7

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (slight) Hepatocellular vacuolation (minimal) Hematopoietic cell foci (minimal)
Kidney/1	Hyaline cast(s) (minimal)

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 7
SEX: Male
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS
(continued)

Spleen

Hemopoiesis, primarily erythropoiesis (slight)
Hemosiderin pigment (minimal)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

Animal No: 8

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Kidney/1

Tubular atrophy, cortical (minimal)

Kidney/2

Interstitial inflammation, lymphocytic (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)

No abnormalities found in: Pancreas, Testes/1,
Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 9
SEX: Male
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

Skin

chest region: Alopecia

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

No abnormalities found in: Pancreas.

Animal No: 10

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (moderate)
Single cell necrosis (slight)

No abnormalities found in: Pancreas.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 11
SEX: Male
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Hepatocellular vacuolation (minimal)

No abnormalities found in: Pancreas.

Animal No: 13

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Hepatocellular vacuolation (minimal)

No abnormalities found in: Pancreas.

000359

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 14
SEX: Male
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

No abnormalities found in: Pancreas.

Animal No: 15

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Pancreas

Apoptosis/single cell necrosis, exocrine (minimal)

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 97
 SEX: Female
 DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 28
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 08/10/98
 date of end of treatment: 04/11/98
 date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (moderate)
No abnormalities found in: Pancreas, Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.	

Animal No: 98

MACROSCOPIC FINDINGS

days of treatment : 28
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 08/10/98
 date of end of treatment: 04/11/98
 date of necropsy : 05/11/98

Ovaries left side Watery cyst

No abnormalities were found in any of the other
 tissues examined

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 98
SEX: Female
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Kidney/1	Pelvic mineralization (minimal)
Ovary/1	No micro correlate
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Kidney/2, Ovary/2,
Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 99

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Kidney/1, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 100
SEX: Female
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Single cell necrosis (minimal)

Kidney/1

Tubular atrophy, cortical (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

Animal No: 101

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 101
SEX: Female
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Kidney/1	Tubular mineralization (minimal)
Spleen	Hemosiderin pigment (moderate)
Mandibular Lymph Node/ 1	Lymphoid hyperplasia (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 102

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (moderate)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 103
SEX: Female
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Thymus	Lymphoid atrophy - involution (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Mesenteric Lymph Node, Mandibular
Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 104

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

000365

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 104
SEX: Female
DOSE GROUP: Vehicle Control

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal) Hepatocellular vacuolation (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
	No abnormalities found in: Pancreas, Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 105

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

Skin	abdominal region: Scab formation
	No abnormalities were found in any of the other tissues examined

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Skin	Inflammation, exudative (slight) (correlates to GROSS finding)

000366

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 106
SEX: Female
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Hepatocellular vacuolation (slight)

Animal No: 107

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Animal No: 109

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 109
SEX: Female
DOSE GROUP: Vehicle Control

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Animal No: 110

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Animal No: 111

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

000368

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 17
SEX: Male
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (slight)
Kidney/1	Tubular atrophy, cortical (slight)
Kidney/2	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Testes/1, Testes/2,
Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/2.

Animal No: 18

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

000369

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 18
SEX: Male
DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Midzonal/centrilobular hypertrophy, diffuse (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Kidney/1	Tubular atrophy, cortical (minimal) Pelvic mineralization (minimal)
Kidney/2	Tubular mineralization (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (moderate)

No abnormalities found in: Testes/1, Testes/2,
Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/2.

Animal No: 19

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Midzonal/centrilobular hypertrophy, diffuse (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)

000370

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 19
SEX: Male
DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS
(continued)

Mesenteric Lymph Node	Congestion/erythrophagocytosis (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Testes/1, Testes/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mandibular Lymph Node/2.

Animal No: 20

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Kidney/2, Testes/1,
Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 21
SEX: Male
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (minimal)
Kidney/1	Interstitial inflammation, lymphocytic (minimal) Hyaline cast(s) (minimal)
Kidney/2	Tubular atrophy, cortical (minimal) Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/2.

Animal No: 22

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

000372

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 22
SEX: Male
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight)
Pancreas	Apoptosis/single cell necrosis, exocrine (slight)
Kidney/1	Tubular atrophy, cortical (minimal)
Kidney/2	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)

No abnormalities found in: Testes/1, Testes/2,
Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 23

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

000373

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 23
SEX: Male
DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Kidney/1, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 24

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal) Exocrine atrophy, focal (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)

000374

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 24
 SEX: Male
 DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS
 (continued)

Mandibular Lymph Node/
 1

Plasmacytosis (slight)

No abnormalities found in: Kidney/1, Kidney/2,
 Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
 2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
 Node/2.

Animal No: 25

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : recovery group
 necropsy status : planned recovery
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
 Single cell necrosis (minimal)
 Hematopoietic cell foci (minimal)

No abnormalities found in: Pancreas.

Animal No: 26

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : recovery group
 necropsy status : planned recovery
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 18/11/98

No findings noted

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 26
SEX: Male
DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (moderate)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

No abnormalities found in: Pancreas.

Animal No: 27

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

Testes

Reduced in size FLACCID

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (moderate)
Single cell necrosis (minimal)

Pancreas

Exocrine atrophy, focal (minimal)

Testes/1

Seminiferous tubular atrophy (severe) (correlates to
GROSS finding)

Testes/2

Seminiferous tubular atrophy (severe) (correlates to
GROSS finding)

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 29
SEX: Male
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

No abnormalities found in: Pancreas.

Animal No: 30

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Coagulative necrosis, focal (minimal)

No abnormalities found in: Pancreas.

000377

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 31
SEX: Male
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

No abnormalities found in: Pancreas.

Animal No: 113
SEX: Female

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

Mandibular Lymph Node/
1

Plasmacytosis (slight)
Lymphoid hyperplasia (slight)

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 113
SEX: Female
DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS
(continued)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/2.

Animal No: 114

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 115
SEX: Female
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 116

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Single cell necrosis (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

000380

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 116
 SEX: Female
 DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS
 (continued)

No abnormalities found in: Pancreas, Kidney/1,
 Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
 Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
 Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 117

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 08/10/98
 date of end of treatment: 05/11/98
 date of necropsy : 06/11/98

Kidneys

right side Pelvic dilation

No abnormalities were found in any of the other
 tissues examined.

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Kidney/2

Pelvic dilation present (correlates to GROSS
 finding)

Adrenal Gland/1

Extracapsular nodule present

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
 Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
 Ovary/1, Ovary/2, Adrenal Gland/2, Thymus,
 Mesenteric Lymph Node, Mandibular Lymph Node/1,
 Mandibular Lymph Node/2.

000381

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ . /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 118
SEX: Female
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Thymus	Lymphoid atrophy - involution (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (moderate)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Mesenteric Lymph Node, Mandibular
Lymph Node/2.

Animal No: 119

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

000382

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/... /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 119
SEX: Female
DOSE GROUP: Telomer Alcohol

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Kidney/2	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (moderate)
Thymus	Lymphocytolysis, increased (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 120

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 121
SEX: Female
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 122

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

Skin

Alopecia

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Skin

No micro correlate

Animal No: 123

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

000384

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 123
SEX: Female
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 125

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 126

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

000385

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 127
SEX: Female
DOSE GROUP: Telomer Alcohol

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 33
SEX: Male
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Kidney/2	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 33
SEX: Male
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS
(continued)

Number of Sections less than protocol for Mandibular
Lymph Node/1 (0).

No abnormalities found in: Testes/1, Testes/2,
Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/2.

Animal No: 34

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Kidney/1	Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)
Mandibular Lymph Node/ 2	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node.

000387

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 35
SEX: Male
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Testes/1, Testes/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 36

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Kidney/1

Tubular atrophy, cortical (minimal)
Interstitial inflammation, lymphocytic (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 36
SEX: Male
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS
(continued)

Number of Sections less than protocol for Mandibular
Lymph Node/1 (0).

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 37

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (moderate) Single cell necrosis (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

000389

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 38
SEX: Male
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)
Mandibular Lymph Node/ 2	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Testes/1, Testes/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node.

Animal No: 39

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

000390

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 39
SEX: Male
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal) Exocrine atrophy, focal (minimal)
Kidney/1	Tubular atrophy, cortical (minimal) Pelvic inflammation, lymphoid (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)
No abnormalities found in: Kidney/2, Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.	

Animal No: 40

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
Thymus	Lymphocytolysis, increased (slight)
Mandibular Lymph Node/ 1	Congestion/erythrophagocytosis (moderate)

000391

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 40
 SEX: Male
 DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS
 (continued)

No abnormalities found in: Pancreas, Kidney/2,
 Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
 2, Mesenteric Lymph Node, Mandibular Lymph Node/2.

Animal No: 41

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : recovery group
 necropsy status : planned recovery
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 42

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : recovery group
 necropsy status : planned recovery
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

000392

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 43
SEX: Male
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 45

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 46

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

000393

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 46
 SEX: Male
 DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 47

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : recovery group 2
 necropsy status : planned recovery 2
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 129
 SEX: Female

MACROSCOPIC FINDINGS

days of treatment : 28
 sacrifice group : terminal sacrifice
 necropsy status : other
 date of start of treatment: 08/10/98
 date of end of treatment: 04/11/98
 date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
 Single cell necrosis (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (slight)
 Hemosiderin pigment (minimal)

000394

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 129
SEX: Female
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS
(continued)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 130

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Hepatocellular vacuolation (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Kidney/2	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Thymus	Lymphoid atrophy - involution (minimal)

No abnormalities found in: Pancreas, Ovary/1, Ovary/
2, Adrenal Gland/1, Adrenal Gland/2, Mesenteric
Lymph Node, Mandibular Lymph Node/1, Mandibular
Lymph Node/2.

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ -/PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 131
SEX: Female
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Single cell necrosis (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 132

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

000396

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 132
SEX: Female
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal)
Pancreas	Exocrine atrophy, focal (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
No abnormalities found in: Kidney/1, Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.	

Animal No: 133

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (slight)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (slight)
Thymus	Lymphoid atrophy - involution (minimal)
No abnormalities found in: Pancreas, Kidney/1, Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.	

000397

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 134
SEX: Female
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal)
Kidney/2	Tubular atrophy, cortical (minimal) Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Thymus	Lymphocytolysis, increased (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 135

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

000398

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 135
SEX: Female
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Mandibular Lymph Node/ 1	Plasmacytosis (slight) Lymphoid hyperplasia (slight)
No abnormalities found in: Pancreas, Kidney/1, Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/2.	

Animal No: 136

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Kidney/2	Interstitial inflammation, lymphocytic (minimal)
Adrenal Gland/1	Extracapsular nodule present
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (moderate)
Thymus	Lymphoid atrophy - involution (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

000399

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 136
SEX: Female
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS
(continued)

Mandibular Lymph Node/
2

Lymphoid hyperplasia (slight)

No abnormalities found in: Pancreas, Kidney/1,
Ovary/1, Ovary/2, Adrenal Gland/2, Mesenteric Lymph
Node.

Animal No: 137

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 138

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

000400

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 139
SEX: Female
DOSE GROUP: Telomer Acrylat

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 141

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 142

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

000401

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ //PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 142
SEX: Female
DOSE GROUP: Telomer Acrylat

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 143

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 49
SEX: Male
DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal)

000402

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/...//PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 51
SEX: Male
DOSE GROUP:

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal) ..

Spleen

Hemopoiesis, primarily erythropoiesis (slight)
Hemosiderin pigment (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Testes/1, Testes/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 52

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (minimal)

Mesenteric Lymph Node

Congestion/erythrophagocytosis (minimal)

Mandibular Lymph Node/
1Plasmacytosis (slight)
Lymphoid hyperplasia (slight)
Congestion/erythrophagocytosis (slight)Mandibular Lymph Node/
2

Congestion/erythrophagocytosis (slight)

000403

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 52
 SEX: Male
 DOSE GROUP:

MICROSCOPIC FINDINGS
 (continued)

No abnormalities found in: Pancreas, Kidney/1,
 Kidney/2, Testes/1, Testes/2; Adrenal Gland/1,
 Adrenal Gland/2, Thymus.

Animal No: 53

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight)
Kidney/1	Tubular atrophy, cortical (minimal) Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)

No abnormalities found in: Pancreas, Kidney/2,
 Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
 2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
 Node/1, Mandibular Lymph Node/2.

Animal No: 54

MACROSCOPIC FINDINGS

days of treatment : 29
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 06/10/98
 date of end of treatment: 03/11/98
 date of necropsy : 04/11/98

000404

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 54
SEX: Male
DOSE GROUP:

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal)
Kidney/1	Hyaline cast(s) (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

Animal No: 55

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight)
Pancreas	Apoptosis/single cell necrosis, exocrine (slight)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

000405

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 55
SEX: Male
DOSE GROUP:

MICROSCOPIC FINDINGS
(continued)

Mandibular Lymph Node/
2

Plasmacytosis (slight)

No abnormalities found in: Kidney/1, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node.

Animal No: 56

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Kidney/1

Tubular atrophy, cortical (minimal)

Kidney/2

Tubular atrophy, cortical (minimal)
Hyaline cast(s) (minimal)

Adrenal Gland/1

Extracapsular nodule present

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (minimal)

Thymus

Lymphoid atrophy - involution (minimal)
Lymphocytolysis, increased (slight)

No abnormalities found in: Pancreas, Testes/1,
Testes/2, Adrenal Gland/2, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

000406

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 57
SEX: Male
DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 58

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 59

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

000407

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 59
SEX: Male
DOSE GROUP:

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 61

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

Eyes

lens: right side Reduced in size

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Eyes

Periorbital inflammation due to blood sampling
(moderate) (correlates to GROSS finding)

Animal No: 62

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

000408

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 63
SEX: Male
DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 145
SEX: Female

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

Mandibular Lymph Node/
1

Lymphoid hyperplasia (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/2.

000409

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
 Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
 Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 146
 SEX: Female
 DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 28
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 08/10/98
 date of end of treatment: 04/11/98
 date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
 Single cell necrosis (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
 Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
 Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
 Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
 Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 147

MACROSCOPIC FINDINGS

days of treatment : 28
 sacrifice group : terminal sacrifice
 necropsy status : planned terminal
 date of start of treatment: 08/10/98
 date of end of treatment: 04/11/98
 date of necropsy : 05/11/98

No findings noted

000410

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE, /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 147
SEX: Female
DOSE GROUP:

MICROSCOPIC FINDINGS

Liver Inflammatory cell foci (minimal)
Single cell necrosis (minimal)

Kidney/1 Cystic tubules (slight)

Spleen Hemosiderin pigment (slight)

Mandibular Lymph Node/
1 Lymphoid hyperplasia (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 148

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammatory cell foci (slight)

Kidney/1 Interstitial inflammation, lymphocytic (minimal)

Spleen Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

Thymus Lymphocytolysis, increased (minimal)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

000411

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 149
SEX: Female
DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 150

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Hematopoietic cell foci (minimal)

Spleen

Hemosiderin pigment (moderate)

Mandibular Lymph Node/
1

Plasmacytosis (slight)
Lymphoid hyperplasia (slight)

000412

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 150
SEX: Female
DOSE GROUP:

MICROSCOPIC FINDINGS
(continued)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/2.

Animal No: 151

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

Uterus

left side Cyst(s)

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Uterus

Cyst(s) present simple serosal) (correlates to GROSS
finding)

Spleen

Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

000413

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 152
SEX: Female
DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Thymus	Lymphoid atrophy - involution (minimal)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 153

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

000414

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 154
SEX: Female
DOSE GROUP:

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 155

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 157

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

000415

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 157
SEX: Female
DOSE GROUP:

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 158

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 159

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

000416

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 65
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)
Hepatocellular vacuolation (slight)

Kidney/1

Tubular atrophy, cortical (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

Animal No: 66

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

Lungs

Hemorrhage

Stomach

glandular mucosa Hemorrhage

Testes

Reduced in size

000417

Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 66
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS
(continued)

Epididymides

Reduced in size

No abnormalities were found in any of the other tissues examined

MICROSCOPIC FINDINGS

Lungs

Intra-alveolar blood, necropsy artefact present
(correlates to GROSS finding)
Vascular mineralisation, focal (minimal)

Stomach

No micro correlate

Liver

Inflammatory cell foci (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)

Pancreas

Apoptosis/single cell necrosis, exocrine (minimal)

Kidney/1

Tubular atrophy, cortical (minimal)

Testes/1

Seminiferous tubular atrophy (severe) (correlates to GROSS finding)

Testes/2

Seminiferous tubular atrophy (severe) (correlates to GROSS finding)

Epididymides

Atrophy (moderate) (correlates to GROSS finding)
Aspermia present

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (minimal)Mandibular Lymph Node/
1

Plasmacytosis (moderate)

Mandibular Lymph Node/
2

Congestion/erythrophagocytosis (minimal)

No abnormalities found in: Kidney/2, Adrenal Gland/
1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node.

000418

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no.: 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 67
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)
Hepatocellular vacuolation (minimal)
Coagulative necrosis, focal (minimal)

Kidney/1

Tubular atrophy, cortical (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (slight)

Mandibular Lymph Node/
1

Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 68

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

000419

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 69
SEX: Male
DOSE GROUP: PFHS

MICROSCOPIC FINDINGS
(continued)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 70

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight)
Pancreas	Inflammation, mixed granulocytic/lymphocytic (minimal)
Kidney/1	Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight)

No abnormalities found in: Kidney/2, Testes/1,
Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

000420

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 71
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight)
Kidney/1	Cystic tubules (slight)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)
Mandibular Lymph Node/ 2	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node.

Animal No: 72

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

Liver Enlarged

000421

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 74
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

Testes

Reduced in size

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Testes/1

Seminiferous tubular atrophy (moderate) (correlates
to GROSS finding)

Testes/2

Seminiferous tubular atrophy (moderate) (correlates
to GROSS finding)

Animal No: 75

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

000422

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 77
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Animal No: 78

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Animal No: 79

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

000423

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 79
SEX: Male
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Hepatocellular vacuolation (minimal)

Animal No: 161
SEX: Female

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)

Kidney/1

Tubular epithelial hypertrophy, focal (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 162
SEX: Female
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 163

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 163
SEX: Female
DOSE GROUP: PFHS

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (moderate) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight) Hemosiderin pigment (slight)
Thymus	Lymphocytolysis, increased (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Mesenteric Lymph Node, Mandibular
Lymph Node/2.

Animal No: 164

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Thymus	Lymphoid atrophy - involution (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Mesenteric Lymph Node, Mandibular
Lymph Node/1, Mandibular Lymph Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 165
SEX: Female
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
No abnormalities found in: Kidney/1, Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.	

Animal No: 166

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 166
SEX: Female
DOSE GROUP: PFHS

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal)
Adrenal Gland/1	Extracapsular nodule present
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Mandibular Lymph Node/ 1	Lymphoid hyperplasia (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 167

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ / PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 168
SEX: Female
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Single cell necrosis (minimal)
Hepatocellular vacuolation (minimal)

Kidney/1

Cystic tubules (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (moderate)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

Animal No: 169

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 170
SEX: Female
DOSE GROUP: PFHS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 171

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 173

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 173
SEX: Female
DOSE GROUP: PFHS

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 174

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

Animal No: 175

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

No tissues examined

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 81
SEX: Male
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight) Hematopoietic cell foci (minimal)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)
Mandibular Lymph Node/ 1	Plasmacytosis (moderate)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 82

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 82
SEX: Male
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Midzonal/centrilobular hypertrophy, diffuse (moderate) Hepatocellular vacuolation (minimal)
Pancreas	Apoptosis/single cell necrosis, exocrine (slight)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (minimal)

No abnormalities found in: Kidney/2, Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 83

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 02/11/98
date of necropsy : 03/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (moderate) Hepatocellular vacuolation (minimal)
Kidney/1	Interstitial inflammation, lymphocytic (slight) Cystic tubules (slight)
Kidney/2	Interstitial inflammation, lymphocytic (minimal)

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 84
SEX: Male
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS
(continued)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/2.

Animal No: 85

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)

Kidney/1

Tubular atrophy, cortical (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)

No abnormalities found in: Pancreas, Kidney/2,
Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/
2, Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

Animal No: 86

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 86
SEX: Male
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight) Hepatocellular vacuolation (minimal)
Kidney/1	Tubular atrophy, cortical (minimal) Hyaline cast(s) (minimal)
Kidney/2	Tubular atrophy, cortical (minimal)
Adrenal Gland/1	Vacuolation, multifocal in z. fasciculata (minimal)
Adrenal Gland/2	Vacuolation, multifocal in z. fasciculata (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (slight)
Thymus	Lymphoid atrophy - involution (slight)

No abnormalities found in: Pancreas, Testes/1, Testes/2, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 87

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 87
SEX: Male
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (moderate) Hepatocellular vacuolation (slight)
Kidney/1	Tubular atrophy, cortical (minimal) Hyaline cast(s) (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal)

No abnormalities found in: Pancreas, Kidney/2, Testes/1, Testes/2, Adrenal Gland/1, Adrenal Gland/2, Thymus, Mesenteric Lymph Node, Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 88

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 04/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (slight) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (moderate)
Pancreas	Apoptosis/single cell necrosis, exocrine (minimal)
Adrenal Gland/1	Vacuolation, multifocal in z. fasciculata (minimal)
Adrenal Gland/2	Vacuolation, multifocal in z. fasciculata (minimal)

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 88
SEX: Male
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS
(continued)

Spleen Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (minimal)

Thymus Lymphoid atrophy - involution (minimal)

No abnormalities found in: Kidney/1, Kidney/2,
Testes/1, Testes/2, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 89

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse (slight)
Hepatocellular vacuolation (minimal)

Animal No: 90

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

Liver Accentuated lobular pattern

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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 90
SEX: Male
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS
(continued)

No abnormalities were found in any of the other
tissues examined

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(moderate) (correlates to GROSS finding)
Hepatocellular vacuolation (slight) (correlates to
GROSS finding)

Animal No: 91

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 18/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)
Hepatocellular vacuolation (slight)

Animal No: 93

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 93
SEX: Male
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

Animal No: 94

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)
Hepatocellular vacuolation (minimal)

Animal No: 95

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 06/10/98
date of end of treatment: 03/11/98
date of necropsy : 02/12/98

No findings noted

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 95
SEX: Male
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse (slight)

Animal No: 177
SEX: Female

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse (slight)

Kidney/2

Tubular atrophy, cortical (minimal)

Adrenal Gland/1

Extracapsular nodule present

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

Thymus

Lymphoid atrophy - involution (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Ovary/1, Ovary/2, Adrenal Gland/2, Mesenteric Lymph
Node, Mandibular Lymph Node/1, Mandibular Lymph
Node/2.

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 178
SEX: Female
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight)
Kidney/2	Tubular atrophy, cortical (minimal) Interstitial inflammation, lymphocytic (minimal)
Adrenal Gland/1	Small glands, normal morphology.
Spleen	Hemosiderin pigment (minimal)

No abnormalities found in: Pancreas, Kidney/1,
Ovary/1, Ovary/2, Adrenal Gland/2, Thymus,
Mesenteric Lymph Node, Mandibular Lymph Node/1,
Mandibular Lymph Node/2.

Animal No: 179

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

000441

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Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 179
SEX: Female
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(moderate)

Spleen

Hemosiderin pigment (moderate)

No abnormalities found in: Pancreas, Kidney/1,
Kidney/2, Ovary/1, Ovary/2, Adrenal Gland/1,
Adrenal Gland/2, Thymus, Mesenteric Lymph Node,
Mandibular Lymph Node/1, Mandibular Lymph Node/2.

Animal No: 180

MACROSCOPIC FINDINGS

days of treatment : 28
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 04/11/98
date of necropsy : 05/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

Kidney/1

Interstitial inflammation, lymphocytic (minimal)

Spleen

Hemopoiesis, primarily erythropoiesis (minimal)
Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 182
SEX: Female
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Midzonal/centrilobular hypertrophy, diffuse (moderate)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 183

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Single cell necrosis (minimal) Midzonal/centrilobular hypertrophy, diffuse (moderate)
Kidney/1	Interstitial inflammation, lymphocytic (minimal)
Spleen	Hemosiderin pigment (slight)
Mandibular Lymph Node/ 1	Plasmacytosis (slight)

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 183
SEX: Female
DOSE GROUP: PFOS

MICROSCOPIC FINDINGS
(continued)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/2.

Animal No: 184

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : terminal sacrifice
necropsy status : planned terminal
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 06/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver	Inflammatory cell foci (minimal) Midzonal/centrilobular hypertrophy, diffuse (slight)
Kidney/1	Tubular atrophy, cortical (minimal)
Spleen	Hemopoiesis, primarily erythropoiesis (minimal) Hemosiderin pigment (slight)

No abnormalities found in: Pancreas, Kidney/2,
Ovary/1, Ovary/2, Adrenal Gland/1, Adrenal Gland/2,
Thymus, Mesenteric Lymph Node, Mandibular Lymph
Node/1, Mandibular Lymph Node/2.

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 185
SEX: Female
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)

Animal No: 186

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

Animal No: 187

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group
necropsy status : planned recovery
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 20/11/98

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PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ /PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 187
SEX: Female
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS
(continued)

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Animal No: 189

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (slight)
Single cell necrosis (minimal)

Animal No: 190

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Single cell necrosis (minimal)

000446

PATHOLOGY REPORT

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Test Article: TELOMER ALCOHOL/TELOMER ACRYLATE/ PFHS/PFOS NOTOX no. : 242933
Test System : Exploratory 28-Day Gavage Study in Rats Propath no.: 99010
Sponsor : 3M Toxicology Services Date : 21.Apr.1999

Individual Animal Data Records

Animal No: 191
SEX: Female
DOSE GROUP: PFOS

MACROSCOPIC FINDINGS

days of treatment : 29
sacrifice group : recovery group 2
necropsy status : planned recovery 2
date of start of treatment: 08/10/98
date of end of treatment: 05/11/98
date of necropsy : 04/12/98

No findings noted

MICROSCOPIC FINDINGS

Liver

Inflammatory cell foci (minimal)
Midzonal/centrilobular hypertrophy, diffuse
(minimal)

000447