

Toxicity by Inhalation

Nature of Experiment _____

Date Started July 21, 1924

Animal # Rabbit 16 White Doe

Date Finished October 17, 1924

Description of Treatment From July 21, to Oct. 2, with exception of Sunday holidays, and 2 days when air system was out of order, was exposed to, S.C.S. air sat. with $Pb(C_2H_5)_4$ to which was added 5000 c.c. air, 6 hours per day, 3 hours on Saturday. Oct. 9 exp. continued until Oct. 15. From Oct. 15 to Oct. 17, was exposed to 2000 c.c. air sat. with $Pb(C_2H_5)_4$ to which was added 5000 c.c. air. Oct. 17 animal died in convulsions. Under air sat. with lead tetraethyl containing

Clinical Results 0.00456 grams. Pb, at 25°C

July 21. Weight. 6 1/8 lbs. July 25. Temp. 103 2/5

Aug. 7 Weight 6 3/8 lbs.

Sept. 22 One young rabbit born before rabbit placed in cage. Young died almost immediately although apparently normal and of good size.

Oct. 15 Weight 7 13/16 lbs.

Pathology Oct. 17 Animal died in convulsions - not of violent type but an almost continuous twitching of feet and legs - with head not retracted.

Gross

Acute edema of brain with much free water (sub dural). Brain very soft. Acute irritation of small intestine with large quantity of mucus. No diarrhea occurred.

Microscopic

Analyses

Distribution

	<u>Weight</u>	<u>Lead</u>	<u>Lead</u> <u>mg/100g</u>
Bones	520 gms.	2.22 gms.	0.43
Liver	82 gms.	3.75 gms.	4.58
Central Nervous System	18 gms.	0.13 gms.	0.72
Remainder	2125 gms.	26.00 gms.	1.22

Conclusions

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