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CLINTON LABORATORIES

DATE 3/23/45

Series B:
1. S. L. Warren

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1 R. S. Stone DEPARTMENT Eckhart

FROM C. L. Prosser DEPARTMENT Biology

IN RE: Revised report on analaysis of [redacted] tissues

The analysis of the tissues was made under the direction of Dr. Abrams. Every effort was made to use as large an aliquot as possible since it was expected that very little if any radioactive material would be present. The tissue ash solution was precipitated with zirconium phosphate followed by lanthanum fluoride. This procedure removes most of the calcium and also, according to Mr. Seabor, removes at least ninety percent of radium. We find that activities up to 1 alpha count per min. are within our experimental error, hence if one gest a value of 1 count/min on a 100 mg sample of bone he is not justified in concluding that the skeletal activity is 10 counts/min/gm. All one can say is that skeletal activity is between 10 and 0 counts/min/gm.

Results of analyses for alpha activity are given in the followinb table. This table shows that the amount of alpha emitting material in the tissues is zero. Even if the count of 1.2 observed on the one long bone were significant it would correspond to only 8.7×10^{-15} c of alpha activity per gram of bone.

The ashes showed no beta or gamma activity.

Tissue	Wet Weight (gms)	Ash Weight of Aliquot	Alpha Activity Observed Counts/Minute
long bone	61.8	15.8	1.2
rib	24.2	4.3	0.1
vertebra	29.2	4.4	0.7
kidney	35.0	0.6	0.0
spleen	49.5	0.8	0.0
lung	85.0	0.6	0.0
liver	42.5	1.0	0.0

Classification Changed to OUO
By Authority of Adm.
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By Ted Davis, Analysas Corp
Date 9-8-89
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cc: Cole
Abrams

C. Ladd Proesser (signed)

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