

**SECRET**

MOB-RSC 323  
This document consists of 1 pages and 0 figures  
No. 3 of 3 copies, Series A

January 18, 1945

R. S. Stone

Eckhart

715938

R. Abrams

Biology Section

Report on Analysis on Human Leukemic Tissues

It was expected that very little Pu would be present, so every effort was made to use as large an aliquot as possible. We find that activities up to 1 count/min. are within our experimental error and so if one gets a value of 1 count/min. on a 100 mg sample of bone he is not justified in concluding that the skeleton activity is 10 counts/min/gm. All one can say is that it is somewhere between 10 and 0. The larger the aliquot one uses, the lower the maximum may be set.

From the accompanying table, it is evident that the amount of Pu in the tissues listed is zero. Even if the count of 1.2 observed on the long bone were due to Pu, it would correspond to a Pu content for the entire skeleton of only 0.002 0.002 mg Pu.

The ashes showed no  $\beta$  or  $\gamma$  activity.

TISSUE	Wet Weight of Aliquot (Grams)	Ash Weight of Aliquot	ACTIVITY	
			Observed c/m	$\mu$ gPu/gm. Tissue
Long Bone	61.8	15.8	1.2	$3.3 \times 10^{-7}$
Rib	24.2	4.3	0.1	$7.1 \times 10^{-8}$
Vertebra	29.2	4.4	0.7	$4.1 \times 10^{-7}$
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

DEST COPY AVAILABLE

REPOSITORY NARA-WaDC.  
COLLECTION ANL Chicago Met Lab  
BOX No. NN3-77-85-1 (36)  
FOLDER Jan 18, 45

CLASSIFIED BY [unclear]  
[unclear]  
Chicago Geneva 1975ll

1100136

This document contains information affecting the National Defense of the United States within the meaning of the Espionage Act, U. S. C. 50, 31 and 32. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

**SECRET**