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BEST COPY AVAILABLE

November 8, 1955

Dr. Walter H. Freygang, Jr.
Laboratory of Neurophysiology
National Institute of Mental Health
Bethesda 14, Md.

Dear Dr. Freygang:

The delay in answering your September 30th letter has been due to Dr. Hamilton's absence from the Laboratory. We feel that you might have fulfilled your needs for the potassium you refer to, but for future reference we are submitting the data requested.

It is our practice to produce the questioned isotopes by bombardment of high pressure argon with 48 Mev alpha particles. By the expedient of cooling the pressure chamber, a continuous separation of potassium is effected during the run. At the runs' completion, distilled water (about 100 cc volume) is used to wash the chamber walls to recover the material. Typical yields have run in the order of .5 millicuries per microampere hour of bombardment; estimates of the isotope ratio indicate from 60% to 80% is from K^{42}, depending upon the length of run.

We hope that this information will be of value to you in the future. If further data is needed please let us know.

Enclosed are the necessary forms outlining the procurement procedure. All shipping costs (by rail or air as requested) are borne by the purchaser.

Sincerely yours,

G. Bernard Rossi, Supervisor
60" Cyclotron

GBR/bb
Encl.

cc: Dr. J.G. Hamilton
E.E. Coleman

University of California - Berkeley
The Bancroft Library
Dr. Ernest Lawrence

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