

## BYPRODUCT MATERIAL LICENSE

## Supplementary Sheet

License Number 45-7548-1  
(G63)Amendment No. 1

Melpar, Incorporated  
3000 Arlington Boulevard  
Falls Church, Virginia

Attention: John F. Ambrose  
Victor R. Huebner  
Gerald Halpert

In accordance with applications dated July 17 and July 18, 1961 and letter from Austin G. Roe dated August 4, 1961, License No. 45-7548-1 is amended as follows:

To revise Items 6, 7, 8, and 9 and Conditions 12 and 14 to read:

| 6. Byproduct material<br>(element and mass number) | 7. Chemical and/or<br>physical form              | 8. Maximum amount of<br>radioactivity which<br>licensee may possess<br>at any one time |
|--|--|--|
| A. Carbon-14                                       | A. Any   | A. 400 millicuries   |
| B. Krypton-85                                      | B. Gas   | B. 1 curie   |
| C. Hydrogen-3                                      | C. U. S. Radium<br>Corp. Model<br>LAB-508-1 foil | C. 1 foil of 300<br>millicuries  |

## 9. Authorized Use

- A. To be used as a tracer for investigating (1) mechanisms of chemical reactions, (2) the structure of products and (3) the metabolism of various compounds in lower animals.
- B. To be used to study the chemical stability and reactivity of the Quinol-Krypton 85 chlathrate compound.
- C. To be used in a gas chromatography device.

## CONDITIONS

- 12. Byproduct material licensed in subitems A and B shall be used by, or under the direct, personal supervision of, John F. Ambrose or Gerald Halpert.

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DUPLICATED

FEDERAL BUREAU OF INVESTIGATION

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14. Except as provided otherwise by this license, the licensee shall possess and use byproduct material described in Items 6, 7 and 8 of this license in accordance with statements, representations, and procedures contained in his applications dated June 8 and June 13, 1961 and July 17 and July 18, 1961 and in letter from Austin G. Roe dated August 4, 1961.

To add Condition 15:

15. Byproduct material licensed in subitem C shall be used by, or under the supervision of, Victor R. Huebner.

For the U. S. Atomic Energy Commission

Original Signed By  
James R. Mason  
Chief, Isotopes Branch

by

Division of Licensing and Regulation  
Washington 25, D. C.

Date August 14, 1961

*JMB/ce*

*REB 8/14/61*