

BYPRODUCT MATERIAL LICENSE No. 45-7548-1, AMENDMENT NO. 5 (G63)

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

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| <p style="text-align: center;">Licensee</p> <p>1. Name Melpar, Incorporated 3000 Arlington Boulevard</p> <p>2. Address Falls Church, Virginia</p> | <p style="text-align: center;">In accordance with application dated December 21, 1961,</p> <p>3. License number 45-7548-1 is amended in its entirety to read as follows:</p> <p>4. Expiration date July 31, 1963</p> <p>5. Reference No.</p> |
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| <p>6. Byproduct material (element and mass number)</p> <p>A. Carbon 14</p> <p>B. Krypton 85</p> <p>C. Hydrogen 3</p> | <p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Gas</p> <p>C. U. S. Radium Corp. Model LAB-508-1 Foil</p> | <p>8. Maximum amount of radioactivity which licensee may possess at any one time</p> <p>A. 400 millicuries</p> <p>B. 10 curies</p> <p>C. 1 foil of 300 millicuries</p> |
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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 in laboratory experiment as an internal energy source to study radiation induced reaction.
 - C. To be used in a gas chromatography device.

CONDITIONS

- 10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
- 11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation."
- 12. Byproduct material licensed in Subitems A. and B. shall be used by, or under the direct personal supervision of, John F. Ambrose, Gerald Halpert, Dr. Frank L. Aldrich, Bruno M. Vasta, or Mrs. Marie Tiner. Byproduct material licensed in Subitem C. shall be used by, or under the supervision of, Victor R. Huebner or Mrs. Marie Tiner.
- 13. Byproduct material shall not be used in or on human beings or in products distributed to the public.
- 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, 1961; June 13, 1961; July 17, 1961; July 18, 1961; and December 21, 1961, and letters dated August 8, 1961 and November 3, 1961.

For the U. S. Atomic Energy Commission

Original Signed By
James R. Mason

DUPLICATED
FEDERAL BUREAU OF INVESTIGATION

Date January 2, 1962

by Chief, Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

1. *EMH/lam*

REB 1/2/62

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