

NB 8215



DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF FOR LOGISTICS
WASHINGTON, D.C. 20310

LOG/E2 -14756

22 NOV 1965

U. S. Atomic Energy Commission
Division of Materials Licensing
Isotopes Branch
Washington, D. C. 20545

Gentlemen:

Reference is made to your letter BML: 1B: NB (70971) dated 29 September 1965, requesting additional information in connection with Fort Monmouth application for renewal of BML No. 29-1022-6.

Attached are three copies of answers to comments made in above referenced letter.

Sincerely yours,

1 Incl.
as (tripl)

GUSTAV SEIDLER
Acting Chief
PEMA Execution Division



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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.

Licensee		
1. Name	Department of the Army Third US Army Medical Laboratory	3. License number 10-3997-4 (K66)
2. Address	and US Army Hospital Fort McPherson, Georgia	4. Expiration date November 30, 1966
		5. Reference No.
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioac- tivity which licensee may pos- sess at any one time
A. Iodine 131	A. Iodide	A. 10 millicuries
B. Iodine 131	B. Iodinated Human Serum Albumin	B. 5 millicuries
(See Page 2)		

9. Authorized use

- A. Diagnosis of thyroid function and thyroid scanning. Checking for metastases from thyroid carcinoma.
- B. Determination of plasma volume and cardiac output. Localization of brain tumors.

(See Page 2)
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 shall be used by, or under the supervision of, individuals designated by the Fort McPherson Radioisotope Committee. Use of byproduct material in humans shall be under the supervision of a physician.
- 13. Byproduct material shall not be used in humans until its pharmaceutical quality and assay have been established.
- 14. Except as specifically 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 application dated September 11, 1964.

MATERIAL LICENSE

Supplementary Sheet

Continued From Page 1

License Number 10-3997-4
(K66)

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
C. Iodine 131	C. Hippuran	C. 2 millicuries
D. Iodine 131	D. Rose Bengal	D. 2 millicuries
E. Iodine 131	E. Triolein and/or Oleic Acid	E. 2 millicuries
F. Iodine 131	F. Cholografin	F. 2 millicuries
G. Iodine 131	G. Triiodothyronine	G. 1 millicurie
H. Iodine 125	H. Iodide	H. 1 millicurie
I. Iodine 125	I. Iodinated Human Serum Albumin	I. 1 millicurie
J. Iodine 125	J. Hippuran	J. 1 millicurie
K. Chromium 51	K. Sodium Chromate	K. 3 millicuries
L. Chromium 51	L. Chromic Chloride	L. 1 millicurie
M. Cobalt 58	M. Vitamin B-12	M. 10 microcuries
N. Cobalt 60	N. Vitamin B-12	N. 10 microcuries
O. Gold 198	O. Colloidal	O. 25 millicuries
P. Iron 59	P. Ferric Chloride and/or Ferrous Citrate	P. 1 millicurie
Q. Mercury 203	Q. Chlormerodrin	Q. 10 millicuries
R. Hydrogen 3	R. Water	R. 25 millicuries
S. Sodium 24	S. Sodium Chloride	S. 1 millicurie
T. Any byproduct material with Atomic Nos. 3-83, inclusive	T. Any	T. 500 microcuries total

9. Authorized Use

- C. Renograms.
- D. Determination of liver function and liver scanning.
- E. Determination of fat absorption.
- F. Determination of gallbladder function.
- G. In vitro red blood cell uptake.
- H. Diagnosis of thyroid function and thyroid scanning.
- I. Determination of plasma volume and cardiac output.
- J. Renograms.
- K. Determination of red cell mass, red cell survival time, and gastrointestinal bleeding.
- L. Determination of plasma volume.
- M. and N. Diagnosis of pernicious anemia.
- O. Liver scanning.
- P. Determination of iron turnover.
- Q. Kidney scanning.

U. S. ATOMIC ENERGY COMMISSION
PRODUCT MATERIAL LICENSE
Supplementary Sheet

License Number 10-3997-4
(K66)

Continued from Page 2:

9. Authorized Use

- R. Determination of total body water.
- S. Determination of total exchangeable sodium.
- T. Analysis of feed for possible radioisotope contamination.

For the U. S. Atomic Energy Commission

Isotopes Branch Original Signed by
Nathan Bassin
by Division of Materials Licensing

Date NOV 19 1964

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