

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Endocyte Incorporated</p> <p>2. 3000 Kent Avenue West Lafayette, Indiana 47906</p>	<p>In accordance with letter dated July 23, 2015,</p> <p>3. License No. 13-32212-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration Date: December 31, 2019</p> <hr/> <p>5. Docket No. 030-35228 Reference No.</p>
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6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Hydrogen-3	A. Any nonvolatile chemical form	A. 50 millicuries
B. Carbon-14	B. Any nonvolatile chemical form	B. 10 millicuries
C. Phosphorus-32	C. Any nonvolatile chemical form	C. 20 millicuries
D. Phosphorus-33	D. Any nonvolatile chemical form	D. 10 millicuries
E. Sulfur-35	E. Any nonvolatile chemical form	E. 20 millicuries
F. Technetium-99	F. Any	F. 1 millicurie
G. Technetium-99m	G. Any nonvolatile chemical form	G. 500 millicuries
H. Iodine-125	H. Any nonvolatile chemical form	H. 10 millicuries
I. Iodine-125	I. Sodium Iodide	I. 10 millicuries
J. Gallium-67	J. Liquid chloride	J. 20 millicuries
K. Gallium-68	K. Liquid chloride	K. 20 millicuries
L. Indium-111	L. Liquid chloride	L. 20 millicuries

9. Authorized Use:

A. through L. Research and development as defined in Section 30.4 of 10 CFR Part 30 including animal studies.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License No.

13-32212-01

Docket or Reference No.

030-35228

Amendment No. 10

CONDITIONS

10. Licensed material shall be used or stored only at the licensee's facilities located at 3000 Kent Avenue, West Lafayette, Indiana.
11. The Radiation Safety Officer (RSO) for this license is Jonathan Shillingford, Ph.D.
12. Licensed material is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:
- | <u>Authorized User</u> | <u>Materials and Use</u> |
|------------------------------|----------------------------------|
| Christopher P. Leamon, Ph.D. | Items 6.A. through 6.I. |
| Le-Cun Xu, Ph.D. | All |
| Marilyn Vetzal | Items 6.A. through 6.I. |
| Joseph A. Reddy, Ph.D. | Items 6.A. and 6.G. through 6.I. |
13. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- B. A record of each such disposal permitted under this license condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
14. The licensee shall not use licensed material in or on human beings.
15. The licensee shall not use licensed material in field applications where activity is released except as otherwise provided by specific condition of this license.
16. Experimental animals, or the products from experimental animals, that have been administered licensed material shall not be used for human consumption.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U. S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.


A. Application dated September 25, 2009; and

B. Letters dated February 14, 2013, April 29, 2013, and **July 23, 2015**.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

Date AUG 26 2015

By


Cassandra F. Frazier
Materials Licensing Branch
Region III