NRC FORM 374

#### 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 authonzing 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.

Licensee			.X. 1.		
1. Zevacor Molecular		3. License number 13-35179-02			
2. 14395 Bergen Blvd.		4. Expiration date December 31, 2025			
Noblesville, IN 46060		5. Docket No. 030-38841 Reference No.			
6. Byproduct, source, and/or special 7 nuclear material	. Chemical and/or	physical form 8. Maximum amount that licensee may possess at any one time under this license			
A. Any byproduct material with atomic numbers 1 through 83	A. Any			Illicuries per uclide; 1 curie total	
B. Molybdenum-99	B. Any		B. 300 cu	ries	
C. Technetium-99m	C. Any		C. 300 cu	ries	
D. Rubidium-82	D. Any		D. 2 curie	s sector	
E. Strontium-82	E. Any	and the second sec	E. 2 curie	S and the second se	
F. Strontium-85	F. Any		F. 500 mi	llicuries	
G. Indium-111	G. Any		G. 1 curie		
H. Germanium-68	H. Any		H. 2 curie	S	
I. Gallium-68	I. Any		1. 2 curies	S Contraction	
J. Cesium-137	J. Sealed so model BM	urce (Radqual 06E-90)	J. 200 mi	crocuries	
K. Cobalt-57	K. Sealed so model BM	urce (Radqual 06E-157	K. 5 millic	uries	
L. Barium-133	L. Sealed so model BM	urce (Radqual 06E-33)	L. 250 mi	crocuries	

# 9. Authorized Use:

A. through I. For research and development in the pre-production of radiopharmaceuticals for testing, validation, and qualification of FDA regulated drug products for submission of data for drug protocols.

J. Through L. For use as calibration/reference sources for instrument calibration.

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## MATERIALS LICENSE SUPPLEMENTARY SHEET

13-35179-02 Docket or Reference Number 030-38841

License Number

### CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities located at 14395 Bergen Boulevard, Noblesville, Indiana.
- 11. A. Licensed materials shall be used by, or under the supervision of Scott D. Chance, PharmD.
  - B. The Radiation Safety Officer for this license is John Zehner.
- 12. Licensed material shall not be used in or on humans except as provided otherwise by specific condition of this license.

13. The licensee shall not use licensed material in field applications where activity is release except as provided otherwise by specific condition of this license.

- 14. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
- 15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
- 16. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- The licensee shall not acquire licensed material in a sealed source or device that contains a sealed source unless the source or device has been registered with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
- A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
  - B. In the absence of a certificate from a transferor indicating that a leak test has been made, within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement state, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
  - C. Sealed sources need not be leak tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain no more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material.

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	D.	Sealed sources need not be tested if they are in sto they are removed from storage for use or transferre within the required leak test interval, they shall be te shall be stored for a period of more than 10 years w contamination.	ed to another person, and have not been tested ested before use or transfer. No sealed source
	E.	The leak test shall be capable of detecting the prese radioactive material on the test sample. If the test re- becquerels) or more of removable contamination, a Regulatory Commission in accordance with 10 CFR immediately from service and decontaminated, repa Commission regulations.	eveals the presence of 0.005 microcurie (185 report shall be filed with the U.S. Nuclear $\gtrsim 30.50(c)(2)$ , and the source shall be removed
	F.	Tests for leakage and/or contamination, limited to le the licensee or by other persons specifically license or an Agreement State to perform such services.	
	G.	Records of leak test results shall be kept in units of	microcuries and shall be maintained for 3 years.
19.		licensee is authorized to transport licensed material of Part 71, "Packaging and Transportation of Radioacti	
20.		licensee is authorized to hold radioactive material wit y-in-storage before disposal in ordinary trash provide	
		Before disposal as ordinary trash, byproduct materia with the appropriate survey meter set on its most se determine that its radioactivity cannot be distinguish be removed or obliterated.	ensitive scale and with no interposed shielding to
	<b>B</b> .	A record of each disposal permitted under this Licen The record must include the date of disposal, the da in storage, the radionuclides disposed, the survey in dose rate measured at the surface of each waste co performed the disposal.	ate on which the byproduct material was placed instrument used, the background dose rate, the

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- 21. 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 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 May 27, 2015 [ML15152A156]; and
  - B. Letter dated October 16, 2015 [ML15292A558].

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

DEC 29 2015 Date

By

Kevin G. Null Materials Licensing Branch

Region III