**U.S. NUCLEAR REGULATORY COMMISSION** Corrected Copy 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. Licensee 1. Zevacor Molecular 3. License number 13-35179-03 2. 14395 Bergen Boulevard 4. Expiration date April 30, 2026 5. Docket No. 030-38903 Noblesville, IN 46060 Reference No. Chemical and/or physical form 6. Byproduct, source, and/or special 7. 8. Maximum amount that licensee may nuclear material possess at any one time under this license A. Any byproduct material with A. 1 curie per nuclide, 2 curie A. Any atomic numbers 1 through 83 total possession, except as noted. B. Indium-111 B. Any B. 10 curies C. Thallium-201 C. Any C. 7.5 curies D. Lead-202 D. 90 curies D. Any E. Gallium-67 E. 9.9 curies E. Any F. Gallium-68 F. 50 curies F. Any G. Cobalt-57 G. Any G. 10 curies H. Cobalt-58 H. 120 curies H. Any Germanium-68 Any Ľ 50 curies 1. I. J. Zinc-62 J. 100 curies J. Any K. Zinc-65 K. 2000 curies K. Any L. Copper-62 100 curies Any L M. 100 curies M. Copper-64 M. Any N. Copper-67 N. 5 curies N. Any O. Rubidium-81 O. Any O. 30 curies P. Rubidium-82 P. Any P. 35 curies Q. Strontium-82 Q. 35 curies Q. Any R. Strontium-85 R. 35 curies R. Any S. Fluorine-18 S. 300 curies S. Any T. Nitrogen-13 T. Any T. 30 curies

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	MATERIALSLICE	NSF	License Number 13-35179-03 Docket or Reference	Number					
	SUPPLEMENTARY S	HEET	030-38903						
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	U. Carbon-11	U. Any		U. 16 cur	ies				
	V. Oxygen-15	V. Any		V. 1 curie	;				
	W. Zirconium-89	W. Any	ali Angelia Na angelia	W. 20 cu	ries				
	X. Europium-154	X. Incidentally a isotopes	ctivated	X. 100 m	illicu	ries			
	Y. Scandium-46	Y. Incidentally a isotopes	ctivated	Y. 100 mi	illicui	ries			
	<b>Z. Iron-59</b>	Z. Incidentally a isotopes	ctivated	Z. 100 mi	llicur	ies			
	AA. Cobalt-60	AA. Incidentally isotopes	activated	AA. 100 r	nillic	urie	5		
	BB. Zinc-65	BB. Incidentally isotopes	activated	BB. 100 m	nillicu	iries	Earse :		
	CC. Cesium-134	CC. Incidentally isotopes	activated	CC. 100 r	nillic	urie	S		
	DD. Europium-152	DD. Incidentally isotopes	DD. Incidentally activated isotopes		nillic	urie	S /		
	EE. Manganese-54	EE. Incidentally isotopes	EE. Incidentally activated isotopes		EE. 100 millicuries				
	FF. Depleted Uranium	FF. Metal	FF. Metal		FF. 5000 kilograms				
	GG. Cesium-137	GG. Sealed sou (RadQual mo number BM0	GG. Sealed source (RadQual model number BM06E-37		2 mil	licur	ie		
	HH. Cobalt-57	HH. Sealed sour (RadQual mo number BM0	HH. Sealed source (RadQual model number BM06E-57		HH. 5.16 millicuries				
	II. Barium-133	II. Sealed source model numb 33	e (RadQual er BM06E-	II. 0.262 r	nillic	urie			
					·				
	Authorized use:							,	
	A. through W. (1) For producti transfer to pe and condition Commission	on, possession, or har ersons authorized to re ns of a specific license or an Agreement State	dling of radiocher ceive the licensec issued by the U.S	nicals and s I material pu S. Nuclear R	eale Irsua egula	d so int to atory	urce the /	es foi terr	

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	n	MATERIALSLICENSE	Docket or Reference Number				
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			Corrected Copy				
		(2) Research and development as def	ined in 10 CFR 30.4.				
		(3) For packaging and distribution of p persons authorized to receive licen conditions of specific licenses issue Agreement States. This should no radioactive drug.	roduced radiochemicals a sed materials pursuant to ed by the Nuclear Regula t be distributed as a radio	and se the te tory Co pharm	aled s rms a ommi aceu	sourc and ssior tical	es to i or or
	X. through EE.	For possession and storage of byprodu	ct materials incidental to i	adionu	uclide	proc	luction
	FF. Shielding for	or generators					
	CC through II	Calibration and chacking of the licenses	's instruments	Ĩ.			
	GG. Infoughtil.		e s'instruments.			n Al Al	
						<u>्राः</u> इत्याः स्टब्स्	
		CONDITION	S				
			_				
10.	Licensed mate	erial shall be used only at the licensee's fac	cilities located at 14395 B	ergen	Blvd.	<b>)</b>	
	NODIESVIIIE, IN	olana.					
11.	The Radiation	Safety Officer for this license is John Zeh	ner.				and and a second s
12.	Licensed mate PharmD, or M	erial shall be used by, or under the supervi laxim Kiselev, PhD.	sion of John Zehner, RPh	i, Scot	Cha	nce,	eregi Sere Regiñ
12	This lisense d	and not outborize distribution pursuant to S	2 72 or 22 74: to porcons	ovom	nt fra	m lic	oneina
15.	or to general l	icensees.	52.72 01 52.74, to persone	CACILI	priio	111.4 <b>IC</b>	
14.	A. Sealed so intervals s Agreemen	urces shall be tested for leakage and/or co pecified in the certificate of registration iss It State	ntamination at intervals n ued by NRC under 10 CF	ot to e R 32.2	xcee 10 or	d the by a	n In
	B. In the absorbed intervals s Agreemen shall not b	ence of a certificate from a transferor indice pecified in the certificate of registration issues at State prior to the transfer, a sealed source is put into use until tested and the test resu	ating that a leak test has l ued by NRC under 10 CF e or detector cell received ilts received.	been n R 32.2 d from	nade 10 or anoth	within by a ner p	n the n erson
	C. Sealed so they are re within the shall be st	urces need not be tested if they are in stor moved from storage for use or transferred required leak test interval, they shall be test ored for a period of more than 10 years with	age and are not being use to another person, and h sted before use or transfe thout being tested for lead	ed. Ho ave no r. No age a	oweve ot bee seale nd/or	er, wh en tes d sou	nen sted irce

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	D. The leak t radioactive (185 becq Regulator immediate Commissi	est shall be capable of detecting the e material on the test sample. If the uerels) or more of removable contar y Commission in accordance with 10 by from service and decontaminated on regulations.	presence of 0.005 microcurie (185 test reveals the presence of 0.005 nination, a report shall be filed with 0 CFR 30.50(c)(2), and the source s I, repaired, or disposed of in accord	beco micro the l shall ance	quer ocuri U.S. be re with	els) ie Nuc emo า	of lear ved		
	E. Tests for I performed Commissi	eakage and/or contamination, includ by the licensee or by other persons on or an Agreement State to perform	ling leak test sample collection and specifically licensed by the U.S. N n such services.	anal uclea	ysis, ar Re	, sha •gula	ll be itory		
	F. Records of	f leak tests results shall be kept in u	nits of microcuries and shall be ma	intair	ned f	or 3	years		
5.	Sealed source from source h	es or detector cells containing license olders by the licensee, except as sp	ed material shall not be opened or s ecifically authorized.	sourc	ces r	emo	ved		
6.	The licensee U.S. Nuclear under the lice	shall conduct a physical inventory ev Regulatory Commission, to account nse.	very six months, or at other intervals for all sources and/or devices recei	s app ved a	orove and (	ed by poss	the essed		
7.	Except for ma authorization combination to Certificates is	intaining labeling as required by 10 of from NRC before making any change nat would alter the description or spe sued either by the Commission purs	CFR Part 20 or 71, the licensee sha es in the sealed source, device, or ecifications as indicated in the respe uant to 10 CFR 31.210 or by an Ag	all ob sourc ective reem	tain ce-de ∋ Re ìent	evice gistr State	) ation e.		
8.	The licensee i decay-in-stora	s authorized to hold radioactive mate age before disposal in ordinary trash	erial with a physical half-life of less provided:	than	120	day	s for		
	A. Before c with the determin be remo	isposal as ordinary trash, byproduct appropriate survey meter set on its r that its radioactivity cannot be dist ved or obliterated.	material shall be surveyed at the c most sensitive scale and with no int tinguished from background. All rac	ontai erpo diatic	iner : sed on lai	surfa shiel bels	ice ding to shall		
	B. A record The reco in storag dose rat performe	of each disposal permitted under th ord must include the date of disposal le, the radionuclides disposed, the si e measured at the surface of each w ed the disposal.	is License Condition shall be retain I, the date on which the byproduct r urvey instrument used, the backgro vaste container, and the name of the	ed fo nater und e ind	or thr ial w dose ividu	ree y /as p e rate ial w	ears. laced e, the ho		
9.	The licensee i 10 CFR Part 7	s authorized to transport licensed m 71, "Packaging and Transportation o	aterial only in accordance with the p f Radioactive Material."	orovi	sion	s of			
			the second s						

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- 20. 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 January 25, 2016 (ML16028A386).
  - B. Letter dated April 7, 2016 (ML16110A152).

OCT 17 2016

Date

C. Letter dated April 19, 2016 (ML16111A320).

## FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By

Kevin G. Null Materials Licensing Branch Region III