NRC FORM 374 PAGE OF6PAGE U.S. NUCLEAR REGULATORY COMMISSION Amendment No. 20					
0.5					
Pursuant to the Atomic Energy Act of 1954, as am Federal Regulations, Chapter I, Parts 30, 31, 32, 3 made by the licensee, a license is hereby issued a special nuclear material designated below; to use such material to persons authorized to receive it in contain the conditions specified in Section 183 regulations, and orders of the Nuclear Regulatory	33, 34, 35, 36, 39, 40, a authorizing the license such material for the p accordance with the of the Atomic Energy	and 70, and in reliance of ee to receive, acquire, p purpose(s) and at the pla regulations of the applic y Act of 1954, as amer	on statements and re ossess, and transfe ace(s) designated be able Part(s). This lic nded, and is subject	presentations heretofore r byproduct, source, and elow; to deliver or transfer cense shall be deemed to ot to all applicable rules,	
Licensee		In accordance with	n the letter dated	d	
		March 14, 2013,			
1. PharmaLogic Ltd.			r 44-30124-01M	ID is amended in	
•			License number 44-30124-01MD is amended in its entirety to read as follows:		
	-NR F	Eco			
2. 1191 S. Brownell Road, Suite 30 🥟	LEAN	4. Expiration date	September 30,	2014	
2. 1191 S. Brownell Road, Suite 30 Williston, Vermont 05495		5. Docket No. 030-33449			
4		Reference No.	0		
9			P,		
6. Byproduct, source, and/or special 7. nuclear material	Chemical and/or	physical form 8		ount that licensee may one time under this	
A. Any byproduct material with A atomic numbers 3 through 83, except as listed below	Any Chan		 A. 200 millicurie and 2 curies 	es per radionuclide total	
	. Any	11/2/	3. 1 curie		
	C. Any		C. 500 millicuri	es	
). Any	Land - Sec	D. 40 millicuries		
A A	. Any	1005 J.J.J.	E. 500 millicurie		
5/2	. Any		100 curies		
•	G. Any		G. 100 curies		
	I. Any 🦳 🦳		H. 300 millicurie	es	
I. lodine 123 I.	Any	I	. 50 millicuries	3	
J. lodine 131 J	. Any		J. 2.5 curies		
K. Xenon 133 K	. Any	I	K. 1.5 curie		
L. Samarium 153 L	. Any	I		es	
M. Thallium 201 M	1. Any	I	M. 1 curie		
N. Any byproduct material N permitted by 10 CFR 31.11	 Prepackaged u diagnostic tests 		N. 50 millicuries	3	

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O. Any byproduct material (permitted by 10 CFR 35.65(a)	D. Sealed Sources (E.I. DuPont Model N International Isotope	es Model
	BM03-57L and BM03 International Isotope Inc., Model, BM06-37 90, BM08-37, BM08-	es Idaho, 7, BM06-
20	BM06E series, and E series; North America Scientific Model MEE	BM06S an
S .	MED3400, MED3402 MED3550, and MED	2, 03503; and 2
	Isotope Products Lat Model GF-152-R2, G	GF-152-
TA	R3, RV-XXX series, a	
P. Any byproduct material permitted by 10 CFR 35.400	Sealed Sources (Bar Brachytherapy Mode 1251; IsoAid, LLC M 125A; Teragenics Th Model 200; North An Scientific Model MEI and MED 3633)	el STM lodel IAI- heraseed merican
Q. Any byproduct material with atomic numbers 2 through 83	Q. Analytical samples	Q. As needed (see item 9.Q.)
_	R. Solid	R. 400 kilograms
9. Authorized use:		
		s and radiochemicals for medical use in dical use to authorized recipients.
		n 99/technetium 99m generators to authorized 0 CFR 32.72 and for non-medical use to
N. Redistribution to specific licensees and labeling remain unchanged.	s or general licensees p	ursuant to 10 CFR 31.11 provided the packaging

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			License Number 44-30124-01MD	
	MATERIALS LICENSE SUPPLEMENTARY SHEET		Docket or Reference Number 030-33449	
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Ο.	Calibration and checking of the licensee's instruments. Redistribution of sealed sources initially distributed by a manufacturer licensed pursuant to 10 CFR 32.74 to authorized recipients and to authorized recipients for non-medical use.			
P.	. Redistribution for medical use of sealed sources initially distributed by a manufacturer licensed pursuant to 10 CFR 32.74. Redistribution for non-medical use of sealed sources that have been registered either with the Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with a Commission or Agreement State specific license authorizing distribution to persons specifically authorized by a Commission or Agreement State license to receive, possess and use the devices.			
Q.	For possession incident to the performance of leak testing of customers' sealed sources.			
R.	Shield	ing for molybdenum-99/technetium-99m generators		
		A SUM		
		CONDITIONS		
10.	 Licensed material may be used or stored only at the licensee's facilities located at 1191 S. Brownell Road, Suite 30, Williston, Vermont. 			
11.	. Licensed material shall be used by, or under the supervision of:			
	 A pharmacist working or designated as an authorized nuclear pharmacist in accordance with 10 CFR 32.72(b)(2)(i) or (4). 			
	В.	Authorized nuclear pharmacists: James Cordonie R.Ph., Renae Hamilton, R.Ph., Kevin Hart, R.Ph., Peteris Kruze, R.Ph., Joseph Lofaro, R.Ph., Shaw Stallings, R.Ph., BCNP, Gerard Strugala, R.Ph., B Summers, R.Ph., Dana Suttle, R.Ph., Teresa Tribe R.Ph.	Matthew W. Hinton, R.Ph., Garth Kistner, R.Ph., n Lorrain, R.Ph., Glen Palmer, R.Ph., Laurie SCNP, Richard Sucese, R.Ph., Timothy	
12.	The	Radiation Safety Officer for this license is Richard S	Sucese, R.Ph.	
13.	licen	Idition to the possession limits in Item 8, the license sed material to quantities below the minimum limit sommissioning financial assurance.		
14.	This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR Part 31 or to persons exempt from licensing pursuant to 10 CFR 30.14 through 30.21, inclusive, or equivalent regulations of any Agreement State.			

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15.	A.	Sealed sources shall be tested for leakage and/or months or at the intervals specified in the certificat Regulatory Commission under 10 CFR 32.210 or State.	te of registration issued by the U.S. Nuclear
	В.	Notwithstanding Paragraph A of this Condition, se particles shall be tested for leakage and/or contain	
	C.	In the absence of a certificate from a transferor inc the intervals specified in the certificate of registrati Commission under 10 CFR 32.210 or under equiv the transfer, a sealed source received from anothe and the test results received.	ion issued by the U.S. Nuclear Regulatory alent regulations of an Agreement State, prior to
	D.	Sealed sources need not be tested if they contain radioactive gas; or the half-life of the isotope is 30 100 microcuries of beta- and/or gamma-emitting material.	days or less; or they contain not more than
	E.	Sealed sources need not be tested if they are in st they are removed from storage for use or transferr within the required leak test interval, they shall be shall be stored for a period of more than 10 years contamination.	ed to another person and have not been tested tested before use or transfer. No sealed source
	F.	The leak test shall be capable of detecting the pre radioactive material on the test sample. If the test (185 becquerels) or more of removable contamina Regulatory Commission in accordance with 10 CF immediately from service and decontaminated, rep Commission regulations.	reveals the presence of 0.005 microcurie ition, a report shall be filed with the U.S. Nuclear R 30.50(c)(2), and the source shall be removed
	G.	Tests for leakage and/or contamination, including performed by the licensee or by other persons spe Commission or an Agreement State to perform su	ecifically licensed by the U.S. Nuclear Regulatory
	H.	Records of leak test results shall be kept in units of years.	of microcuries and shall be maintained for
16.		led sources or detector cells containing licensed mat source holders by the licensee.	terial shall not be opened or sources removed

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17.	U.S. unde inve	licensee shall conduct a physical inventory every six Nuclear Regulatory Commission, to account for all er the license. Records of inventories shall be maint ntory and shall include the radionuclides, quantities, the date of the inventory.	sources and/or devices received and possessed ained for 5 years from the date of each
18.		licensee is authorized to hold byproduct material wit days for decay-in-storage before disposal without re	
	A.	Monitors byproduct material at the surface before cannot be distinguished from the background radia detection survey meter set on its most sensitive so	ation level with an appropriate radiation
	В.	Removes or obliterates all radiation labels, except containers and that will be managed as biomedica licensee; and	
	C.	Maintains records of the disposal of licensed mate date of disposal, the survey instrument used, the t measured at the surface of each waste container, the disposal.	packground radiation level, the radiation level
19.	The licensee is authorized to retrieve, receive and dispose of radioactive waste from its customers limited to radiopharmacy supplied syringes and vials and their contents.		
20.	Radioactive waste may be picked up from the licensee's customers and disposed of in accordance with the statements, representations and procedures in the letter dated March 14, 1994.		
21.		licensee is authorized to transport licensed material FR Part 71, "Packaging and Transportation of Radio	

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22.	 accordance with the statements, representation including any enclosures, listed below. The shall govern unless the statements, representation and correspondence are more restrictive that A. Letter dated March 14, 1994 B. Letter dated April 29, 1994 C. Letter dated May 25, 1994 D. Letter dated July 8, 1994 E. Letter dated September 6, 1994 F. Application dated November16, 2012 	ations, an U.S. Nu entations an the re (ML0908 (ML0908 (ML0908 (ML0908 (ML0908)	Aclear Regulatory Commission's regulations and procedures in the licensee's application egulations. 390396) 390393) 390214) 390245) 42A318)
	UNITED ST	Autu Autu	OMM/SSO
	*,	+ +	**
		For th	e U.S. Nuclear Regulatory Commission
Date	April 29, 2013	By	Original signed by Dennis R. Lawyer
			Dennis R. Lawyer Commercial and R&D Branch Division of Nuclear Materials Safety