NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 3 PAGES Amendment No. 37

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, 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.

below	able rules, regulations and orde	5/	Nuclear Regulatory Co	mmission now or nere	3/	effect and to any conditions specifie				
Licensee				In accordance with letter dated March 31, 2009,						
1. M	allinckrodt Inc.			3. License number 2 entirety to read as		206-05MD is amended in its ws;				
2. 27	703 Wagner Place			4. Expiration date N	1ay 31	, 2011				
M	aryland Heights, MO 6304	43		5. Docket No. 030-10801 Reference No.						
Byproduct, source, and/or special nuclear material 7. Chemical and/or physical f				rm	 Maximum amount that licensee may possess at any one time under this license 					
A.	Chromium-51	A.	Sodium Chromate	(NDA 16-708)	A.	Not Applicable				
B.	Xenon-133	B.	Gas (NDA 18-327)			Not Applicable				
C.	lodine-125	C.	Radioiodinated Human Serum Albumin (NDA 17-844)			Not Applicable				
D.	lodine-131	D.	Sodium lodohippurate (NDA 16-666)		D.	Not Applicable				
E.	lodine-131	E.	Sodium Iodide Cap 517)	osules (NDA 16-	E.	Not Applicable				
F.	lodine-131	F.	Sodium Iodide Sol 515)	ution (NDA 16-	F.	Not Applicable				
G.	Phosphorus-32	G.	Chromic Phosphat	e (NDA 17-084)	G.	Not Applicable				
Н.	Phosphorus-32	H.	Sodium Phosphate	(NDA 11-777)	H.	Not Applicable				
I.	Molybdenum-99	1.	Molybdenum-99/Te generators (Malling Ultra-Technekow F Eluting Generators 243)	ckrodt, Inc. FM Dry Top	1.	No single generator to exceed 19.5 curies at the time of shipment				
J.	Molybdenum-99	J.	Molybdenum-99/Te generators (Bristol TechneLite Genera 11994-090)	-Myers Squibb	J.	No single generator to exceed 19.5 curies at the time of shipment				

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		License Num 24-04206	Note: No						
	RIALS LICENSE EMENTARY SHEET	Docket or Rei 030-1080	eference Number						
			Amendment No. 37						
K. Indium-111		oride sterile solution 4 and 19-841)	K. Not Applicable						
L. Thallium-201	L. Thallous Ch solution (N	nloride sterile DA 18-150)	L. Not Applicable						
M. Gallium-67	M. Gallium-67 (solution (NI	Citrate sterile DA 18-058)	M. Not Applicable						
N. lodine-123		ide solution nto sucrose within a sule (NDA 17-910)	N. Not Applicable						

9. Authorized Use:

Pursuant to Section 32.72 and 32.74 of 10 CFR Part 32, the licensee is authorized to distribute the byproduct material described in Items 6 and 7 of this license to persons licensed pursuant to Sections 35.100, 35.200 and 35.300 of 10 CFR Part 35, or under equivalent licenses of Agreement States, for the Sections indicated below:

- A. Section 35.100.
- B. Section 35.200.
- C. Section 35.100.
- D. Section 35.100.
- E. Sections 35.100 or 35.300.
- F. Section 35.300.
- G. Section 35.300.
- H. Section 35.300.
- Section 35.200 or for distribution to Mallinckrodt Inc. nuclear pharmacy licenses or other commercial nuclear pharmacies.
- J. Section 35.200 or for re-distribution to Mallinckrodt Inc. nuclear pharmacy licenses or other commercial nuclear pharmacies.
- K. through M. Section 35.200

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		License Number 24-04206-05MD					
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-10801					
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N. Sections 35.100 or 35.200

CONDITIONS

- 10. This license does not authorize possession or use of licensed material.
- 11. The Radiation Safety Officer for this license is James R. Schuh.
- 12. The licensee shall notify the U.S. Nuclear Regulatory Commission within thirty (30) days of the termination of a "Notice of Claimed Investigational Exemption for a New Drug (IND) for licensed material described in Items 6 and 7.
- 13. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
- 14. Any proposed change to shielding that will increase the radiation levels of the packaging shall be submitted to the NRC for review. Any proposed change to labeling that will cause a change to radioactive markings or labeled activity, other than position and increasing the size of symbols and wording, shall be submitted to NRC for review.
- 15. Except as specifically provided otherwise by this license, the licensee shall manufacture, package, label and distribute licensed material described in Items 6. and 7. of this license in accordance with the statements, representations, and procedures contained in:
 - A. Applications dated November 17, 2000, April 25, 2003 (with attached letter dated April 24, 2003) and April 27, 2005 (with attached letter dated April 27, 2005 and attachments);
 - B. Letters dated November 28, 2000, May 16, 2001, March 14, 2003, August 11, 2005, December 13, 2005, February 7, 2006, and March 31, 2009; and
 - C. Facsimiles dated August 1, 2005, and December 12, 2005 (received December 14, 2005)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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JUN 1 6 2009

Kevin G. Null

Materials Licensing Branch

Region III