



**MannKind Corporation**

One Casper Street  
Danbury, CT 06810  
Main: 203-798-8000  
Fax: 203-798-7740  
[www.mannkindcorp.com](http://www.mannkindcorp.com)

March 8, 2011

Licensing Assistant Section  
Nuclear Materials Safety Branch  
Nuclear Regulatory Commission, Region 1  
475 Allendale Road  
King of Prussia, PA 19406-1415

Br 2

03035937

RECEIVED  
REGION 1  
2011 MAR 10 AM 11:09

Re: Termination of Mannkind Corp. License 06-30720-01

To Whom It May Concern:

Enclosed please find NRC Form 314 requesting the termination our Radioactive Materials License 06-30720-01 for our Danbury, CT facility, along with on site waste Decay in Storage disposal documentation, shipped off site waste disposal manifest and room survey documentation.

Mannkind Corp. has not used nor had on site any radioactive material in several years and as required by NRC regulations we would like to terminate our license.

Please do not hesitate to contact me (203-796-3556) if you have any questions or need any additional information.

Regards,

John B. Grimardi, MS, CHMM, RSO  
Associate Director Environmental, Health and Safety  
MannKind Corporation

574639  
NMSS/RGN1 MATERIALS-002

(12-2010)  
10 CFR 30.36(j)(1); 40.42(j)(1);  
70.38(j)(1); and 72.54(k)(5)(1)(i)

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [Infocollects.Resource@nrc.gov](mailto:Infocollects.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**CERTIFICATE OF DISPOSITION OF MATERIALS**

LICENSEE NAME AND ADDRESS

Mankind Corporation  
1 Casper Street  
Danbury, Ct 06810

LICENSE NUMBER

06-30720-01

DOCKET NUMBER

03035937

LICENSE EXPIRATION DATE

03/31/2012

**A. LICENSE STATUS (Check the appropriate box)**

- This license has expired.  This license has not yet expired; please terminate it.

**B. DISPOSAL OF RADIOACTIVE MATERIAL**

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.
  - a. Transfer of radioactive materials to the licensee listed below:
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:  
Decay in Storage of I 125 waste - please see attached decay in storage dates, records and survey at time of disposal.
    - 2. By licensed disposal site:
    - 3. By waste contractor:  
Radiac Research Corporation - please see attached disposal manifests.  
261 Kent Avenue  
Brooklyn, NY 11211
  - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

**C. SURVEYS PERFORMED AND REPORTED**

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME John B. Grimardi	TITLE Associate Director EHS	TELEPHONE (Include Area Code) 203-796-3556	E-MAIL ADDRESS jgrimardi@mankindcorp.com
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Mail all future correspondence regarding this license to:  
1 Casper Street, Danbury, CT 06810

**C. CERTIFYING OFFICIAL**

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE John B. Grimardi, Associate Director EHS	SIGNATURE 	DATE 3-8-2011
--	---	------------------

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.





FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		GTS DURATEK		5. SHIPPER - NAME AND FACILITY RADIAC RESEARCH CORP. 261 KENT AVE. BROOKLYN, NY 11211		SHIPMENT I.D. NUMBER 1735 X COLLECTOR PROCESSOR GENERATOR TYPE (Specify)		7. FORM 540 AND 540A PAGE 1 OF 15 PAGE(S) FORM 541 AND 541A 24 PAGE(S) FORM 542 AND 542A 8 PAGE(S) ADDITIONAL INFORMATION (None) PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 04-DRTK-1							
1. EMERGENCY TELEPHONE NUMBER (800) 424-8300 (Include Area Code)		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST ===== > 176		6. CARRIER - Name and Address RADIAC RESEARCH CORP. Truck #: Trailer #: 261 KENT AVE. BROOKLYN, NY 11211		EPA I.D. NUMBER NYD049178298		9. CONSIGNEE - Name and Facility Address GTS Duratek Bear Creek Operations 1560 Bear Creek Road Oak Ridge, TN 37830		CONTACT Ed Kolski / Donnie Brackett TELEPHONE NUMBER (Include Area Code) (865) 220-1629							
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====> <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO		EPA MANIFEST NUMBER NA		CONTACT ARTHUR GREEN		TELEPHONE NUMBER (Include Area Code) 718 953-2233		DATE 4/19/04							
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIOISOTOPES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Radioactive material, excepted package-limited quantity of material, 7, UN2910 / COMPACTIBLE TRASH		NA		NA		Solid SOLIDIFIED LIQUID (3 JARS) & GLASS		Cs-137 H-3		4.9210E+01 1.3300E+00		NA		86. LBS; 4.01 FT3		132105	
Radioactive material, excepted package-limited quantity of material, 7, UN2910 / COMBUSTIBLE TRASH		NA		NA		Solid PAPER PLASTIC & 10 GLASS VIALS		Cl-36 H-3 Na-22		7.7700E+00 2.1000E-01		NA		31. LBS; 4.01 FT3		132106	
Radioactive material, excepted package-limited quantity of material, 7, UN2910 / COMBUSTIBLE TRASH		NA		NA		Solid PLASTIC PAPER PLYWOOD		Th-232		3.7000E-02 1.0000E-03		NA		76. LBS; 4.1 FT3		132112	
Radioactive material, excepted package-limited quantity of material, 7, UN2910 / COMPACTIBLE TRASH		NA		NA		Solid PAPER PLASTIC GLASS		I-125		1.3690E+01 3.7000E-01		NA		131. LBS; 7.5 FT3		133762	
Radioactive material, low specific activity, n.o.s., 7, UN2912 / COMPACTIBLE TRASH		NA		D.1		Solid PLASTIC FOIL/ Thorium fluoride		Th-232		2.9600E+01 8.0000E-01		LSA-II		147. LBS; 7.5 FT3		134891	
Radioactive material, low specific activity, n.o.s., 7, UN2912 / COMPACTIBLE TRASH		NA		D.1		Solid PLASTIC FOIL/ Thorium fluoride		Th-232		2.9600E+01 8.0000E-01		LSA-II		110. LBS; 7.5 FT3		134892	
FOR CONSIGNEE USE ONLY						20. GENERATOR CERTIFICATION STATEMENT											
TENNESSEE "LICENSE FOR DELIVERY" NO _____						A) Radioactive Materials. Certification is hereby made to GTS Duratek, Inc. that this shipment of low-level radioactive material/waste has been prepared in accordance with radioactive waste management program which has been approved by the Nuclear Regulatory Commission or an Agreement State regulatory agency and with the current revision of the GTS Duratek Material Acceptance Criteria.											
SOUTH CAROLINA TRANSPORT PERMIT NO _____						B) Hazardous Materials. Generator hereby certifies that this material does not contain a hazardous waste as defined in 40 CFR 261.											
US ECOLOGY GENERATOR NO _____						C) Date. Generator hereby represents and warrants that all data set forth in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct in all respects and in accordance with all applicable governmental laws, rules, regulations and GTS Duratek State of Tennessee Radioactive Material Licenses.											
US ECOLOGY PERMIT NO _____						JOSEPH SPEKTOR <i>J. Spektor</i> 4.14.04 Print Name Signature Date											

FORM 540 (10-95)

Surveyed 4-19-04 Nitale And...

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER											16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER	6. CONTAINER DESCRIPTION (See Note 1) PROCESS REQUESTED (See Note 1A) BURIAL/DISPOSITION (See Note 2A)	7. VOLUME  (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT  (kg) (lb)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100cm2)		11. PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION			
					ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR  (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA  (See Note 3)	CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT			
							RADIONUCLIDES		MBq		mCi				
76080-134872/SUNY-ST BROOK NY	4 C E	0.2124	51.7095	<5.0000E-03	<3.3400E-06	<3.3400E-05	39	0.2124	100	PAPER PLASTIC GLASS/NP	NP	H-3	2.1460E+01	5.8000E-01	AU
												Subtotal	2.1460E+01	5.8000E-01	
												Total	2.1460E+01	5.8000E-01	
76080-141730/SUNY-ST BROOK NY	4 C E	0.2124	53.0703	<5.0000E-03	<3.3400E-06	<3.3400E-05	39	0.2124	100	PAPER PLASTIC GLASS/NP	NP	H-3	3.1080E+00	8.4000E-02	AU
												Subtotal	3.1080E+00	8.4000E-02	
												Total	3.1080E+00	8.4000E-02	
76081-1/RW NY	3 C E	0.0193	7.2575	<5.0000E-03	<3.3400E-06	<3.3400E-05	39	0.0193	100	WATCH PARTS/NP	NP	H-3	9.0650E+03	2.4500E+02	AU
												Subtotal	9.0650E+03	2.4500E+02	
												Total	9.0650E+03	2.4500E+02	
76081-2/RW NY	3 C E	0.0193	8.8039	<5.0000E-03	<3.3400E-06	<3.3400E-05	39	0.0193	100	WATCH PARTS/NP	NP	H-3	9.0650E+03	2.4500E+02	AU
												Subtotal	9.0650E+03	2.4500E+02	
												Total	9.0650E+03	2.4500E+02	
76085A-01/NYCBOE WBHS NY	3 C E	0.0193	3.1751	<5.0000E-03	<3.3400E-06	<3.3400E-05	59-SOLIDIFIED LIQUID IN 'PLASTIC JUG'	0.0193	100	SOLIDIFIED LIQUID/NP	NP	C-14	9.2500E+00	2.5000E-01	AU
												Co-60	7.4000E-02	2.0000E-03	
												Subtotal	9.3240E+00	2.5200E-01	
												Total	9.3240E+00	2.5200E-01	
76087-01/MBP@D CT	3 C E	0.0193	3.1751	<5.0000E-03	<3.3400E-06	<3.3400E-05	59-SOLIDIFIED LIQUID IN 'PLASTIC JUG'	0.0193	100	SOLIDIFIED LIQUID/NP	NP	H-3	7.4000E+01	2.0000E+00	AU
												Subtotal	7.4000E+01	2.0000E+00	
												Total	7.4000E+01	2.0000E+00	
76088-01/VA-NYC NY	4 C E	0.2124	46.7200	<5.0000E-03	<3.3400E-06	<3.3400E-05	39	0.2115	100	PAPER PLASTIC GLASS/NP	NP	C-14	8.4268E+00	2.2775E-01	AU
												H-3	5.3669E+01	1.4505E+00	
												I-125	1.8500E-01	5.0000E-03	
												P-32	7.4000E+01	2.0000E+00	
												Subtotal	1.3628E+02	3.6833E+00	

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

Duratek, Inc. - Commercial Processing

2. MANIFEST NUMBER  
04-DRTK-1

MANIFEST INDEX AND REGIONAL COMPACT TABULATION (CONTINUATION)

3. PAGE 3 OF 7 PAGE(S)

4. GENERATOR IDENTIFICATION NUMBER	5. GENERATOR NAME PERMIT NUMBER (IF APPLICABLE) AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME		8. MANIFEST NUMBER(S) UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE P = PROCESSED C = COLLECTED	10. ORIGINATING COMPACT REGION OR STATE	11. AS PROCESSED/COLLECTED TOTAL						
			(m3)	(ft3)				A. SOURCE MATERIAL (kg) (lb)		B. SNM (g)	C. ACTIVITY (mBq) (mCi)		D. VOLUME (m3) (ft3)	
KCHC	KING'S COUNTY HOSPITAL CENTER NYD980904613 631 476 - 1592	Pathology Institute 451 CLARKSON AVE BROOKLYN, NY 11203						2.5800E-01	5.6879E-01	0.0000E+00	5.1202E+02	1.3838E+01	0.0493	1.7400
LOI	LASER OPTICS, INC. 203 744 - 4160	111 WOOSTER STREET BETHEL, CT 06801						6.0000E+01	1.3228E+02	0.0000E+00	2.9600E+02	8.0000E+00	0.2124	7.5000
LIU-Brooklyn	Long Island University @ Brooklyn NYD073130742 718 488-1608	CHS ONE UNIVERSITY PLAZA BROOKLYN, NY 11201						0.0000E+00	0.0000E+00	0.0000E+00	5.6980E+01	1.5400E+00	0.2271	8.0200
MBP@D	MANNKIND BIOPHARMACEUTICAL @ Danbury CT 203-796-3462	1 CASPER STREET DANBURY, CT 06810						0.0000E+00	0.0000E+00	0.0000E+00	7.4000E+01	2.0000E+00	0.0193	0.6800
MBP@E	MANNKIND BIOPHARMACEUTICAL @ Elmsford NY 914-593-6615	33 WEST MAIN STREET SUITE 405 ELMSFORD, NY 10523						0.0000E+00	0.0000E+00	0.0000E+00	9.4720E+01	2.5600E+00	0.2124	7.5000
MRI	MRI - RAY, INC. 914 961-8330	150 MARBLEDALE ROAD TUCKAHOE, NY 10707						0.0000E+00	0.0000E+00	0.0000E+00	3.7000E+01	1.0000E+00	0.2124	7.5000
MSKCC-R	MEMORIAL SLOAN KETTERING CANCER CENTER-R NYD075265157 212 639 - 7391	ROCKEFELLER BLDG. 430 EAST 67 STREET NEW YORK, NY 10065						1.0000E+00	2.2046E+00	0.0000E+00	3.5076E+02	9.4800E+00	4.3616	154.0100
MPC	MEMORY PHARMACEUTICAL CORP. 201-802-7229	100 PHILLIPS PARKWAY MONTIVALE, NJ 07645	0.3398	11.9999	76090 (04/07/2004)	C	NJ	0.0000E+00	0.0000E+00	0.0000E+00	3.1635E+01	8.5500E-01	0.3115	11.0000
MPC270A	MILLENNIUM PHARM. @ 270 Albany St. MAR000500843 617 679 - 7022	270 ALBANY STREET CAMBRIDGE, MA 02139						0.0000E+00	0.0000E+00	0.0000E+00	4.8314E+02	1.3058E+01	0.4248	15.0000

Monday, April 19, 2004

Arthur F. Green  
Radiac Research Corp.  
261 Kent Avenue  
Brooklyn, NY 11211

Dear Mr. Green:

The attached signed shipping manifest copies are your notice of receipt of the radioactive waste materials shipment specified on the manifest number below.

<u>Manifest Number</u>	<u>Date Received</u>
1735-04-DRTK-1	04/19/2004

Thank you for your business.

Sincerely,



Shipping and Receiving

cc: Manifest File  
Shipping and Receiving file



Antkowiak and Mahoney  
Enterprises, Inc.

**Radiological Survey  
for  
MannKind Corp.  
Danbury, CT**

**April 2006**

Prepared by



**Antkowiak and Mahoney  
Enterprises, Inc.**

3 Valley Court  
Chester, NY 10918  
845 406-1917



Antkowiak and Mahoney  
Enterprises, Inc.

**Radiological Survey  
for  
MannKind Corp.  
Danbury, CT**

**April 2006**

*Survey Date:* April 19, 2006

*Survey performed by:*

Joel Antkowiak

*Report prepared by:*

Robert Mahoney

Reviewed and Approved by:



Date:

5/22/06



## Table of Contents

Approval	
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**I. Introduction**

This report has been prepared by Antkowiak & Mahoney Enterprises, Inc. for MannKind Corp. to summarize the results of the monthly radiation safety surveys performed in the radioactive materials use areas at the facility in Danbury, Connecticut. The purpose of the survey was to identify and define the extent of fixed and removable radioactive contamination in the rooms where radioactive materials are used so that the researchers will be able to decontaminate the areas as soon as possible.

The surveys were performed on April 19, 2006 by Joel Antkowiak.

**II. Survey Instrumentation**

Table 2-1 provides a description of the instrumentation used to perform the routine monthly surveys.

Instrument	Use	Serial Number	Calibration Date
Ludlum Model 12 W/Model 43-68 probe	Direct measurements for beta and gamma radiation.	195030 PR 178541	07/22/05
Beckman Model 5000TD Liquid Scintillation Analyzer	Liquid scintillation counting of samples for removable radioactive contamination	7040372	At time of use.

All meters and instrumentation used for this survey have been calibrated within the past twelve months to standards traceable to the National Institute of Standards and Testing (NIST). The hand held meters response to a dedicated check source was verified prior to use. The liquid scintillation counter was calibrated prior to use by running the manufacturer's calibration protocol, allowing the machine to adjust the gain.

**Minimum Detectable Activity  
Calculations**

**Equation**

$$MDA = \frac{2.71 + 4.65\sqrt{Br \times t}}{t \times E \times A/100}$$

where:

- MDA = activity in dpm/100 cm<sup>2</sup>
- Br = background rate in counts per minute
- t = counting time in minutes
- E = detector efficiency in counts per disintegration (4π)
- A = probe area or area wiped in cm<sup>2</sup>



## II. Survey Instrumentation (cont)

Table 2-2 provides the lower limits of detection for the instrumentation used to perform the surveys. The MDA for the Ludlum survey meter uses a background count rate of 300 cpm and an efficiency of 13.1 % for carbon-14.

Instrument	Serial Number	Minimum Detectable Activity
Ludlum Model 12 W/Model 43-68 probe	195030	635 dpm/100 cm <sup>2</sup>
	PR178541	
Beckman Model 5000TD Liquid Scintillation Analyzer	7040372	Channel 1: 102 dpm/sample
		Channel 2: 46 dpm/sample
		Channel 3: 33 dpm/sample

## III. Survey Methodology

Wipe samples were obtained by wiping at least 100 cm<sup>2</sup> with a 4.25 cm diameter, dry filter paper. The samples were placed directly into plastic 7 milliliter vials in an LSC rack labeled with a unique identification number. Upon returning to the AME laboratory, 5 milliliters of an ecologically safe liquid scintillation cocktail were added to each vial. The vial was then capped, shaken, and returned to the rack. All vials were allowed to sit for at least 15 minutes before counting was initiated so that any chemical reactions that may occur will progress to completion. Wipes exhibiting activity above the MDA were recounted for five minutes and the results reported herein as the best estimate of removable radioactivity.

Locations of the wipe samples are indicated on the room diagrams contained in this report. Analytical results are presented with each diagram. Results are reported as less than the Minimum Detectable Activity (MDA) of the instruments where appropriate. The method used to calculate these values is included in the report.

The results of the liquid scintillation analyses are presented by channel number. Channel 1 is set for optimum tritium efficiency (0-19 kev); channel 2 is set for optimum carbon-14 efficiency (19-156 kev) and channel 3 is set for all other higher energy beta emitters (156-1000 kev).

Benchtops, sinks, equipment, and hood sashes were scanned with a 100 cm<sup>2</sup> gas proportional detector using the audio output to identify areas of elevated radioactivity. Contaminated areas are identified as areas greater than twice background. Each contaminated area is identified on the corresponding room diagram along with the results of an integral measurement. The reported results have been corrected for background, and are based on the meters' efficiency to Carbon-14.



#### IV. Summary of Survey Results

*The following summary includes all removable and fixed contamination found to be greater than the MDA.*

##### Removable Activity

Room	Wipe #	Channel 1 (dpm/100 cm <sup>2</sup> )	Channel 2 (dpm/100 cm <sup>2</sup> )	Channel 3 (dpm/100 cm <sup>2</sup> )
None	N/A	N/A	N/A	N/A

##### Direct Activity

Room	Location	(cpm/100 cm <sup>2</sup> )
None	N/A	N/A



**V. List of Rooms Surveyed**

Laboratory 233

Radioactive Waste Area



## **Appendix**

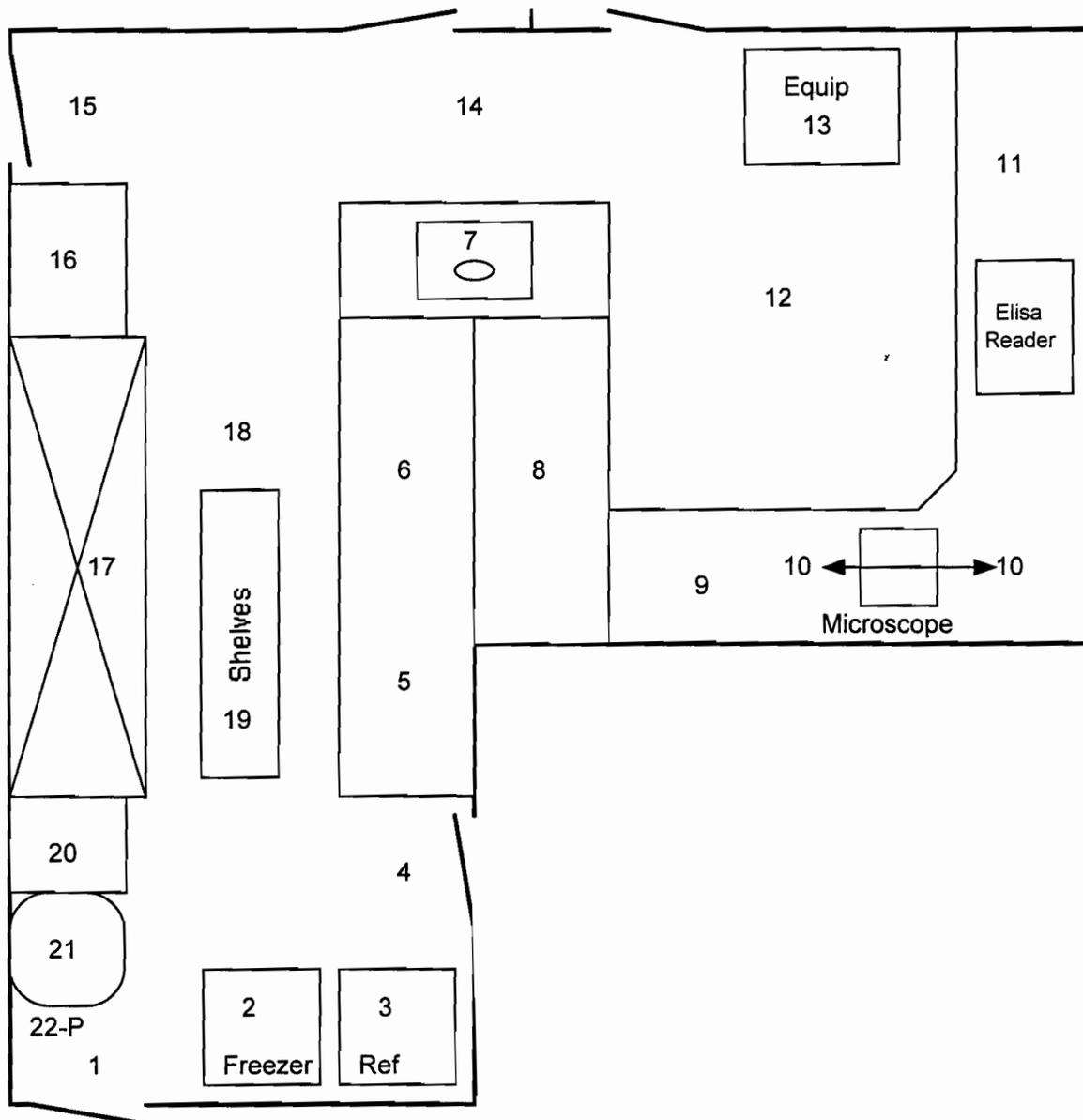
Diagrams of Areas Surveyed and Smear Results



Room: Laboratory 233

Name:

Notes: Part 1



### Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA	11	<MDA	<MDA	<MDA
2	<MDA	<MDA	<MDA	12	<MDA	<MDA	<MDA
3	<MDA	<MDA	<MDA	13	<MDA	<MDA	<MDA
4	<MDA	<MDA	<MDA	14	<MDA	<MDA	<MDA
5	<MDA	<MDA	<MDA	15	<MDA	<MDA	<MDA
6	<MDA	<MDA	<MDA	16	<MDA	<MDA	<MDA
7	<MDA	<MDA	<MDA	17	<MDA	<MDA	<MDA
8	<MDA	<MDA	<MDA	18	<MDA	<MDA	<MDA
9	<MDA	<MDA	<MDA	19	<MDA	<MDA	<MDA
10	<MDA	<MDA	<MDA	20	<MDA	<MDA	<MDA

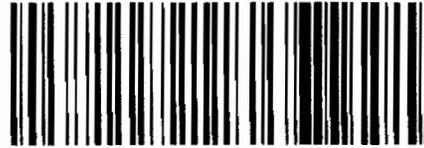




# MannKind Corporation

One Casper Street  
Danbury, CT 06810

**CERTIFIED MAIL™**



7005 3110 0000 7475 7757

574639



Licensing Assistant Section  
Nuclear Materials Safety Branch  
Nuclear Regulatory Commission, Region 1  
475 Allendale Road  
King of Prussia, PA 19406-1415

This is to acknowledge the receipt of your letter/application dated

3/8/2011, and to inform you that the initial processing which includes an administrative review has been performed.

TERMINATION 06-30720-01  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

---

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 574639.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.