

DREXEL UNIVERSITY DREXEL UNIVERSITY COLLEGE OF MEDICINE

Application for Possession and Use of Radioactive Materials in Basic Research

Identification
Name First MI Last Suffix Degree (MD, Ph.D.)
Department Faculty Appointment:
E-mail Phone: Fax:
Location
Employers Drexel University Computer City Queen Lane
Employer Drexel College of Medicine Campus Other:
Office Building Room
Radioactive Material
Radionuclide 1 Chemical Form:
Physical Form: gas liquid sealed source plated source other solid
For sealed or plated source: Mfg/model: Device mfg/model:
For other solid describe source (e.g., powder, activated metal):
Activity per order Order frequency per
Activity per experiment Experiment frequency per
Maximum amount in lab at one time (including in waste):
Radionuclide 2 Chemical Form:
Physical Form: gas liquid sealed source plated source other solid
For sealed or plated source: Mfg/model: Device mfg/model:
For other solid describe source (e.g., powder, activated metal):
Activity per experiment Experiment frequency per
Maximum amount in lab at one time (including in waste):
Radionuclide 3 Chemical Form:
Physical Form: gas liquid sealed source plated source other solid
For sealed or plated source: Mfg/model: Device mfg/model:
For other solid describe source (e.g., powder, activated metal):
Activity per order Order frequency per
Activity per experiment Experiment frequency per

Methods/Procedures
Describe the laboratory procedures performed with radioactive materials. (Reprint may be attached if it describes the methods in detail)
Radiosotope 1:
Have you performed these procedures previously: 🔲 yes 🗌 no
Radiosotope 2:
Have you performed these procedures previously: 🔲 yes 🗌 no
Radiosotope 3:
Have you performed these procedures previously:

If these procedures involve administration of radioactive material to animals, complete the Animal Use Questionairre. If you are applying for additional isotopes or additional chemical forms, complete the supplemental isotope form (a simplified copy of this page). Very similar chemical forms can be grouped together, e.g., nucleotide tri-phosphates.

Equipment and Facilities

Compus					, and the i	room use, e.g., c	0, 0	
Campus	Building		Room I	No.	Use			
Main								
Main								
Main								
Main								
Analytical Radiation [Detection Equipme	ent List the typ	e (liquid scintill	ation counter	r, gamma	counter, etc.), m	anufacturer, mo	del number (if
Туре		^{known}), an Mfg. & Mode		y analytical	equipmen	t used with this p Location	protocol.	
	r	0						
	[
Portable Radiation Su	rvey Instruments	List the type(s	s), manufacture	r and model	number(s) of survey mete	rs available in th	ne facility.
Manufacturer & Mode	el No.	I	nstrument /	Probe Typ	be			
		J L						
Describe available sh	nielding:							
Hood(s):								
Radioactive Waste								
	and the disposal cate	egory that will be	generated,					
		Aqueous	Organic		d Scintillati		Animal	Sealed
Indicate the types of waste Storage for Decay	and the disposal cate		-			ion Fluids Ion-flammable	Animal Carcasses	Sealed Sources
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay		Aqueous Liquid	Organic				-	
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days		Aqueous Liquid	Organic				-	
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal		Aqueous Liquid	Organic				-	
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H		Aqueous Liquid	Organic				-	
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H Mixed Waste Hazardous & radioactive		Aqueous Liquid	Organic				-	
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H Mixed Waste		Aqueous Liquid	Organic				-	
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H Mixed Waste Hazardous & radioactive		Aqueous Liquid	Organic				-	Sources
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H Mixed Waste Hazardous & radioactive Off-site Disposal	Solid	Aqueous Liquid	Organic				-	Sources
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H Mixed Waste Hazardous & radioactive Off-site Disposal Estimate the volume of	Solid Solid	Aqueous Liquid	Organic Liquid		ylene N		-	Sources
Indicate the types of waste Storage for Decay Half-life < 3 days Storage for Decay Half-life < 100 days Sewer Disposal Exempt biomedical <0.05 µCi/g of ¹⁴ C of ³ H Mixed Waste Hazardous & radioactive Off-site Disposal Estimate the volume of Solids & liquids store	Solid Solid	Aqueous Liquid	Organic Liquid	Toluene/X	ylene N	iids: Sn	Carcasses	Sources

Training and Experience

Complete this section if you do not currently have approval to use radioactive materials at Drexel University or the College of Medicine.

Formal and On-The-Job Training					
Topics	Institution(s) Where Training was	Dates of Training	Instruction Hours		
	Received		Lab and Classroom		
Principles of radiation protection					
Measurement / monitoring					
techniques and instruments					
Calculations applicable to					
radioactivity (e.g., half-life decay)					
Biological effects of radiation					

Personal Experience with Radioactive Materials					
Radionuclides	Maximum amounts	Institution(s) Where Experience was	Duration of	Type of Use	
	handled (millicuries)	Gained	Experience		

Have you ever been an authorized user:

no If so, where:

Personnel

List other personnel who will be working with radioactive materials under your authorization.

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Name	Registered as a Radiation Worker	Initial radiation safety instructions provided by PI	Attended Radiation Safety Short Course

Certification

I agree to conduct activities under this authorization in full compliance with applicable federal, state and local regulations, and institutional policies. I have read and understand the applicable parts of the Radiation Safety Manual and agree to keep an updated Manual on file for reference in my office or laboratory. I understand and agree that it is my responsibility to post requisite signs, labels, and warnings prominently in my laboratory; to perform and document wipe tests for removable contamination after each experiment; to train or provide for training of all radioactive users under my supervision; to account for the receipt, use, and disposal of all radioactive materials; and to properly dispose of radioactive materials. I agree to contact the Radiation Safety Officer before transferring radioactive materials, before moving into or out of laboratories, and in the event of a spill or incident or emergency involving radioactive materials.

Signature:

Date:

My name in the signature space above signifies my signature on this document.