

**MOUNT HOLYOKE COLLEGE
RADIATION SAFETY**

PROTOCOL FOR THE USE OF RADIONUCLIDES

Please complete the following form and return to the **RADIATION SAFETY OFFICER.**

I. APPLICANT INFORMATION

Applicant Name:
Department:
Office (Building/Room #):
Radionuclide Lab (Building/Room #)
Email Address:
Telephone Number:

Type of Protocol:

Initial request:	Renewal:	Amendment to an existing protocol (complete amended sections only):
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Signature below affirms that the applicant will comply with the regulations set forth by the Radiation Safety Committee regarding the use of radioactive materials as detailed in the Science Center Safety Handbook. In case of prolonged absence, termination, relocating of lab facilities, or any other change in use or storage, the applicant will inform the Radiation Safety Officer.

Signature:	Date :
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II. RADIONUCLIDE(S) REQUESTED

Radionuclide	Maximum Activity On-Hand (mCi)	Est. Maximum Annual Purchase (mCi)	Form*

*Chemical and/or Physical Form: Liquid, Gas, Crystalline, Powder, Sealed Source

If sealed source, Manufacturer and Model #:

If material is received as a powder, will it be dissolved in shipping vials?	
Radiocnuclide	Yes/No

Will Radionuclide(s) be incorporated into a toxic or hazardous compound? If the answer is yes, outline the safety precautions in Item VII.		
Radiocnuclide	Yes/No	Hazardous compound(s)

Are any of the following used in the protocol? If the answer is yes, outline the safety precautions in Item VII.		
Radioisotope	Yes/No	Compound(s)/Agent(s)
Infectious Agent		
Acute Toxin		
Select Carcinogen		
Reproductive Toxin		
Reactive Chemical		

Will animals be used:		
Yes/No	Species	IACUC Approval Status

III. FACILITIES AND EQUIPMENT FOR HANDLING RADIONUCLIDES

	Location
Hood	
Survey Meter Detector Type:	
Liquid Scintillation Counter	
Gamma Scintillation Counter	

IV. RADIATION SAFETY PROCEDURES

Radiation safety procedures shall be conducted in accordance with the Chapter VII(a) of the Science Center Safety Handbook.

Equipment to be Used	Yes/No	Type (if applicable)
Film Badges/Rings		
Lab Coats		
Disposable Gloves		
Spill Trays		

VI. WASTE DISPOSAL

	Yes/No	Description/Comments
Do you have a record keeping system that will enable you to document receipt and disposition of radioactive materials?		
Have you read the Procedures for Handling Radioactive Waste?		
Have you made arrangements with Radiation Safety to obtain appropriate radioactive waste containers and do you have the proper materials for packing solid and liquid wastes?		
Have you planned for a record keeping system to enable you to correctly label waste containers as to radionuclide, date and quantity?		
If using animals, have you made provisions from frozen storage of carcasses prior to pickup by the disposal service?		
Is there a chance of controlled or uncontrolled release of volatile radioactive waste from experimental procedures?		

If there is a chance of controlled or uncontrolled release of volatile radioactive waste from experimental procedures, provide detailed information on control measures.

VII. PROPOSED RESEARCH

Outline proposed research with details on the procedure for handling each radionuclide. Include such items as maximum activity to be handled at one time, activity per animal, etc. Elaborate on methods of containing potential releases to air or water. As an alternative to describing on this form, you may attach your research protocol.

Biological effects of radiation:
Pertinent other training, include college and university courses, degrees obtained, with dates and subjects:

List each type of experience separately. List radioactive materials separately or in logical groups, showing maximum amounts used, installation where experience was gained, duration of experience, and type of use:
