

ExpDate:
(RS Use Only)

**UNIVERSITY OF WISCONSIN – MILWAUKEE
UNIVERSITY SAFETY AND ASSURANCES
RADIATION SAFETY PROGRAM**

APPLICATION FOR POSSESSION AND USE OF RADIONUCLIDES

NAME OF APPLICANT:	
CAMPUS MAILING ADDRESS:	PHONE:
EMAIL ADDRESS:	OFFICE LOCATION:

1. TYPE OF APPLICATION: (please check one)

New Application Amendment to Current Authorization Renewal

2. FACILITIES:

Building	Room Number	Room Use				
		Hot Lab	Counting Only	Storage Only	Cold Room	Waste Storage

3. REQUESTED MATERIALS

Radionuclide	Chemical Form(s) ¹	Physical Form(s) ²	Order Limit ³ (mCi)	Possession Limit ⁴ (mCi)

¹CHEMICAL FORM: Nucleotides, amino acids, proteins, salts, hormones, etc.
²PHYSICAL FORM: Solid, liquid, gass or sealed (list sealed sources separately)
³ORDER LIMIT: Maximum activity in any single order
⁴POSSESSION LIMIT: Maximum activity on lab's inventory at any time

4. RADIONUCLIDE USE:

Using the attached "Protocol Summary Sheet" briefly describe your intended use for **each** radionuclide.

5. SECURITY/SUPERVISION OF RADIOACTIVE MATERIALS:

How will security of materials be maintained in rooms? (Check all that apply)

- Materials will be stored in locked cabinet, refrigerator, or freezer
- Room will be under direct supervisions when radioactive materials are present or unsecured
- Room will be locked when unattended
- Other (please specify):

6. STAFF TRAINING:

Describe the training or instructions you will provide or require for all personnel who work with or in the vicinity of radionuclides used under your authorization. (check all that apply)

- Personnel will be required to read the handbook Radiation Safety for Radiation Workers and submit the associated exam to Radiation Safety.
- Personnel will be trained in the handling, safe use of radionuclides, authorization limits, and all other radionuclide procedures used in my lab by myself or my designee and a record of that training submitted to Radiation Safety on the "Training and Instruction Checklist".
- Other (specify):

7. PRECAUTIONS TO BE TAKEN TO MINIMIZE EXPOSURES TO PERSONNEL FROM RADIOACTIVITY DURING USE AND WHILE IN STORAGE:

Lab personnel will utilize: (check all that apply)

- Lab Coats Gloves Eye Protection Fume Hoods
- Other (specify):

Stock Solutions/Wastes will be stored: (check all that apply)

- In separate room or area not frequented by personnel
- In an area of the lab not frequented by workers
- Behind appropriate shielding: (specify type and thickness)

8. RADIATION DETECTION INSTRUMENTS:

Instrument Type	Manufacturer	Model Number	Serial Number
Survey Meter/ Probe Type			
Liquid Scintillation Counter			
Gamma Counter			
Other Equipment			

Survey Instruments will be calibrated at least annually by:

- Radiation Safety Other (specify):

9. SPECIAL USES:

Will radioactive materials be used in vertebrate animals?

- No Yes If "yes" submit form entitled "Animal Use of Radionuclides"

Will use include student labs?

- No Yes If "yes", list course number:

Will commercially available sealed sources be used under this authorization?

- No Yes If "yes" list source manufacturer, model number, isotope and activity.
Sealed sources used:

Will gas chromatographs containing electron capture/foil sources be used under this authorization?

- No Yes If "yes" list source manufacturer, model number, isotope and activity.
Gas Chromatographs used:

10. RADIOACTIVE WASTE:

What method(s) will be used to dispose of radioactive wastes generated? (check all that apply)

- Separation by nuclide and physical form and package for pick up by Radiation Safety
- Release to the atmosphere via approved fume hood; location:
- Decay reported to Radiation Safety on disposal form
- Waste generation not anticipated
- Other (specify):

11. TRAINING AND EXPERIENCE:

TRAINING RECEIVED IN BASIC RADIONUCLIDE HANDLING TECHNIQUES

List training received in each specified area. Duration of training must total a minimum of 40 hours.

TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB OR FORMAL COURSES
Principles and practices of radiation protection			
Instrumentation and Monitoring techniques			
Basic calculations for Radioactivity measurement and standardization			
Biological effects of radiation			

EXPERIENCE WITH RADIATION

List actual use of radioactive materials, sources, instruments, etc.

RADIONUCLIDE	ACTIVITY USED (mCi)		TYPE OF USE	DURATION OF USE	WHERE EXPERIENCE WAS GAINED
	AVE.	MAX.			

PLEASE READ BEFORE SIGNING:

The applicant agrees to abide by all applicable regulations regarding the use of radioactive materials as set forth by the State of Wisconsin and/or the U.S. Nuclear Regulatory Commission. These regulations include, but are not limited to the following:

- a. The authorized user has the responsibility to insure that all personnel who work with or in the vicinity of radioactive materials under this authorization (including students and animal caretakers) are trained in accordance with the requirements of the UWM State/NRC license.
- b. All personnel must wear dosimeters when required and have appropriate bioassay monitoring performed when required.
- c. All rooms containing radioactive materials must be posted and surveyed as required by the State of Wisconsin and University regulations. All radioactive materials must be secured from unauthorized removal. No eating or drinking shall be allowed in radionuclide use laboratories.
- d. Records of radionuclide receipt, use and disposal as required by the State of Wisconsin and University regulations.

APPLICANT'S SIGNATURE

DATE

UNIVERSITY JOB CLASSIFICATION AND DEPARTMENT

APPROVAL:

This application to obtain and use radioactive materials has been reviewed and approved in accordance with statements in this application and is subject to any conditions listed below:

RADIATION SAFETY OFFICER

DATE

Duration of Authorization: 3 years _____
 Other _____