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| **Module 9: Radioisotope Use in Live Animals** |

**Instructions:**

1. Please complete all sections of this document as instructed.
2. A separate Module 10 is needed for **each isotope** due to unique safety considerations.
3. Submit the completed Module 10 (signed) to the IACUC Office. It is acceptable to submit the IACUC protocol (with Module 10 included) in advance of safety review and approval. However, the IACUC will not grant approval for the use of radioisotopes in animals until safety approval is confirmed.

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| **A. Project Information** |
| Principal Investigator (PI) for Animal Project: |  |
| Faculty/Staff Title: |  |
| Dept./Section/Company: |  |
| E-mail address: |  |
| Office Phone: |  |
| Fax #: |  |
| Lab Phone: |  |
| Emergency contact #: |  |
| Personnel using hazardous chemicals in live animals: |  |
| Animal Study Title: |  |

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| **B. Isotope Information** |
| Radioisotope (e.g., 3H or tritium): |  |
| Type of radiation hazard (e.g., alpha, beta, gamma, etc.): |  |
| Nature of radioisotope-containing compound to be administered to animal(s): |  |
| Radioisotope half-life: |  |
| Radioisotope source: |  |
| Quantity of radioisotope to be purchased: |  |
| Location of radioisotope storage (room number): |  |
| Storage precautions to be applied: |  |
| Site where radioisotope will be prepared for animal dosing: |  |
| Precautions used in preparing radioisotope for dosing: |  |
| Precautions used for radioisotope transport within institution: |  |

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| **C. Radioisotope Dosing Procedures** |
| Animal species to be dosed: |  |
| Number of animals to be dosed with radioisotope: |  |
| Route of administration (e.g., PO, IP, SC, IV, etc.): |  |
| Amount of radioisotope per dose (in microcuries):: |  |
| Number of doses administered per animal: |  |
| Dosing frequency: |  |
| Work site (room #) where animals will be dosed: |  |
| Precautions used during animal dosing (e.g., equipment, garb): |  |
| Disposal method/site for items used during dosing (e.g., syringes, needles, etc.): |  |
| Dosing site cleanup procedures: |  |
| Fate of unused radioisotope stocks: |  |
| Half-life of radioisotope in animal after dosing: |  |

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| **D. Animal Care following Radioisotope Dosing** |
| Proposed site (room #) of animal housing after dosing: |  |
| Period (maximum duration) animal(s) will be kept following radioisotope dosing: |  |
| Type of caging to be used for animal housing after dosing: |  |
| Special care considerations for animal(s) after dosing: |  |
| Procedures performed on live animal(s) after dosing (e.g., blood sampling, tumor measurement, fecal collection, etc.): |  |
| Safety precautions to be taken during above animal procedures: |  |
| Anticipated effect of radioisotope on animal(s): |  |

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| **E. Radioisotope Metabolism and Excretion** |
| Will the metabolism &/or excretion of the radioisotope (or its metabolites) pose a risk to persons handling or caring for the animal(s) after dosing?(insert **X** in appropriate box below) |
| **Yes** | **No** | If “**yes**,” please complete the remainder of Section E.If “**no**,” please proceed to Section F. |
| **X** |  |
| Specify the **names** and anticipated **quantities** of potentially hazardous radioisotope products from animals following dosing: |
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| Specify the **route(s)** of hazardous radioisotope excretion from the animal (e.g., urine, feces, expired air, saliva, etc.): |
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| Indicate the **safety precautions** that are warranted for the handling of dosed animals and their waste materials (used bedding, dirty cages, etc.): |
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| Specify the person(s) who will perform each of the potentially hazardous procedures listed above: |
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| Outline **emergency procedures** in the event of overt personnel exposure (inhalation, ingestion or inoculation), a spill, or environmental contamination: |
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| **F. End-of-Study Considerations** |
| Disposal site and method for used animal **bedding**: |  |
| Disposal site and method for used animal **caging**: |  |
| Site where animal(s) will undergo **euthanasia** at end of study: |  |
| Animal **procedures** performed in association with euthanasia (e.g., blood collection, etc.): |  |
| Disposal site and method for animal **carcass**: |  |