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| Appendix A: Hazardous Materials information for AUP #       |
| Identity of Hazard: BrdU (5-bromo-2'-deoxyuridine) and/or EdU (5-ethynyl-2'-deoxyuridine) |
| PI name:       | Building/Rooms:       | Vivarium:       |
| Provide a short description of the reagent(s): BrdU and EdU are artificial nucleoside analogues that substitutes for thymine during DNA replication and are commonly used to identify replicating cells in living tissue. |
| **This material is hazardous for:**[ ]  Humans only[ ]  Animals only[x]  Humans and animals[ ]  For which animal species?       | **The reagent can be spread by:**[ ]  Blood[x]  Feces/urine[ ]  Saliva/nasal droplets[ ]  Does not leave animal[ ]  Other       |
| Describe any human health risk associated with this agent: BrdU and EdU displaces thymine during DNA replication so they are considered a mutagen. The can cause genetic mutations, birth defects, and other inheritable genetic effects.  |
| **The precautions checked below apply to this experiment:**[x]  The researcher or his/her technicians are responsible for the feeding and care of these animals. \*\*\* Only for first 72 hours.[ ]  The following items must be assumed to be contaminated with hazardous material and must be handled only by the researcher or his/her technicians.

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| [x]  Cage[x]  Water Bottle[ ]  Animal Carcasses | [x]  Bedding[ ]  Other       |

[ ]  Cages must be autoclaved before cleaning.[x]  Label cages and remove label after decontamination.[x]  Animal Carcasses must be labeled and disposed of as follows:

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| [ ]  Incineration[ ]  Bag and Autoclave | [x]  Biohazardous Waste Container[ ]  EH&S will pick up (x5528) |

[x]  All contaminated waste (soiled bedding or other animal waste) must be properly labeled and disposed of as follows:

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| [ ]  Incineration[ ]  Bag and Autoclave | [x]  Biohazardous Waste Container (\*Trace Chemo Waste)[ ]  EH&S will pick up (x5528) |

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| **Personal Protective Equipment (PPE) Required:**[ ]  The following PPE must be worn/used in the room or when handling animals:

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| [x]  Lab Coat/Coveralls[x]  Shoe Covers/Booties[x]  Disposable or Utility Gloves[ ]  Head Cover[ ]  NIOSH Certified Dust Mask | [ ]  Disinfectant Footbath[ ]  Eye/Face Protection[ ]  NIOSH Certified Fitted Respirator; Type      [ ]  Other       |

[ ]  PPE must be removed before leaving the room.[ ]  PPE must be discarded or decontaminated at the end of the project.[ ]  Hands, arms, and face must be thoroughly washed upon leaving the room.[ ]  Full shower, including washing of hair, must be taken upon leaving the room.[ ]  Decontaminate room (Inform Lead Animal Technician when cage and/or room can be returned to general use. |
| Provide any other information needed to safely work in this designated area of research: Sharps should be adapted for BSL-2. Safety-engineered sharps such as retractable needles are strongly recommended. Cages should be clearly labeled with chemical and treatment date. Bedding and disposable cages from animals treated with BrdU and/or EdU must be treated as chemically contaminated. Contaminated bedding must be double-bagged in yellow trace-chemo waste bags, and labeled with the name of the hazard, the PI name, and location and disposed of in approved trace-chemo waste drums located in the vivarium. Bedding from animals treated with BrdU and/or EdU must be treated as chemically contaminated up to and including the first cage change that occurs at least 72 hours following the final administration. After the cage change occurring at least 72 hours after final administration, the chemical hazard labeling may be removed and the cage and bedding may subsequently receive standard care. Handling of contaminated animal cages (including bedding) will be done only by the researchers. Care should be taken to avoid exposure to contaminated bedding dust when handling exposed animals and their waste materials. Dead animals must be placed in primary plastic bags, which are then placed in biosafety bags for infectious waste incineration. All surfaces and racks that may be contaminated with BrdU and/or EdU will be decontaminated with detergent solution followed by water as soon as procedure is over.  |