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| Appendix A: Hazardous Materials information for AUP #       |
| **Identity of Hazard:** Adeno-Associated Virus (AAV) without hazardous cargo genes (oncogenes, toxins) |
| PI name:       | Building/Rooms:       | Vivarium:       |
| **Provide a short description of the reagent(s):** Adeno-associated virus (AAV) is commonly used as a viral vector to introduce new genes and expressed proteins into eukaryotic cells. Adeno-associated virus is replication incompetent and requires coinfection with a helper virus to replicate. AAV can infect both dividing and non-dividing cells but does not integrate into the host genome. Since AAV DNA is episomal, in quiescent cells the viral DNA remains but is lost in dividing cells. There is evidence of AAV integrating into the genomes of human and dogs, however the frequency is not fully known. |
| **This material is hazardous for:**[ ]  Humans only[ ]  Animals only[ ]  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:** Wild-type AAV is non-pathogenic for humans. AAV without hazardous cargo genes such as oncogenes or toxins should not pose any human health risk. |
| **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.[ ]  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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| [ ]  Cage[ ]  Water Bottle[ ]  Animal Carcasses | [x]  Bedding[ ]  Other none |

[ ]  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:

|  |  |
| --- | --- |
| [ ]  Incineration[ ]  Bag and Autoclave | [x]  Biohazardous Waste Container[ ]  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:**Animals which are administered replication-defective AAV at ABSL-1 may be housed in reusable or disposable cages. 10% bleach or an approved vivarium disinfectant (Clidox) may be used for any AAV-contaminated supplies. Cages must be labeled to identify AAV infected animals but do not require a biohazard sign.AAV-infected animals may shed AAV through urine/feces for 72 hours post-injection. After administration, all cage changes within the first 72 hours and the first cage change after 72 hours must be treated as biohazardous: All bedding and disposable cages must be disposed of as biohazardous waste and performed by laboratory staff. Reusable cages must be decontaminated prior to washing. EH&S recommends that the cage bedding should not be changed for 72 hours post infection, and afterwards the bedding should be disposed of as biohazardous waste. Laboratory staff without access to autoclaves should double bag the bedding in red biohazardous waste bags and seal both bags with zip ties or autoclave tape. The bags should be lightly sprayed with disinfectant and transported to the designated EH&S red biowaste drum as determined by the vivarium location.  |