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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  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:**  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.   |  |  | | --- | --- | | Cage  Water Bottle  Animal Carcasses | Bedding  Other none |   Cages must be autoclaved before cleaning.  Label cages and remove label after decontamination.  Animal Carcasses must be labeled and disposed of as follows:   |  |  | | --- | --- | | Incineration  Bag and Autoclave | Biohazardous Waste Container  EH&S will pick up (x5528) |   All contaminated waste (soiled bedding or other animal waste) must be properly labeled and disposed of as follows:   |  |  | | --- | --- | | Incineration  Bag and Autoclave | Biohazardous Waste Container  EH&S will pick up (x5528) | | | | |
| **Personal Protective Equipment (PPE) Required:**  The following PPE must be worn/used in the room or when handling animals:   |  |  | | --- | --- | | Lab Coat/Coveralls  Shoe Covers/Booties  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. | | | |