

**Institutional Animal Care and Use Committee (IACUC)**

**Application to Use Animals for Research and Training Purposes**

The following animal use protocol application form fulfills Lehigh University's ethical and legal obligations under the:

Federal Animal Welfare Act of 1966, amended 1970, 1976 and 1985,

United States Public Health Policy (Public Law 99-158)

Guidelines set forth in the Guide for the Care and Use of Laboratory Animals (NIH Publication 92-3415)

Research and training involving the use of animals must have an approved protocol on file with the IACUC. The IACUC includes: scientists experienced in animal research, nonscientists, at least one member not affiliated with Lehigh University, and a Veterinarian.

Animal use protocols and IACUC records are subject to review by the United States Department of Agriculture (USDA), federal grant sponsors (e.g., NIH), and the Office of Laboratory Animal Welfare or other Public Health Service (PHS) representatives.

Animal use protocol application forms must be submitted to the office of Research Integrity for distribution to the members of the IACUC. The IACUC meets at a minimum two times per year or as required. Completed animal use protocol application forms must be received by Research Integrity at least ten working days before applicable grant proposal submission deadlines. Animal use protocol applications forms are reviewed at IACUC meetings or electronically. [Applications](mailto:Applications) must be submitted electronically through IRBNet. Animal use protocol application form must be typed. Please clarify all abbreviations. Unsigned or incomplete applications will be returned without review. It may be necessary for the Principal Investigator to attend the IACUC meeting to present a brief summary and to answer questions. Separate animal use protocol applications must be completed for each animal use study. All species involved in the study must be reported on the protocol application.

The federal Animal Welfare Act requires the IACUC to verify the education and training of those who are involved in the animal section of the research. To fulfill this responsibility, the IACUC asks that a record of experience, training and intended training of all personnel be included with each animal use protocol application. All personnel must complete the [**IACUC Qualifications Form**](http://research.cc.lehigh.edu/content/iacuc-qualifications-form).The form is available for completion and submission online. Please complete simultaneously to submitting this protocol application form. Personnel with incomplete Qualifications Forms will not be approved to work on the animal use protocol.

Animal use protocol application forms must be signed by both the Principal Investigator and his or her Department Chairperson. If animals are being housed in the Central Animal Facility and/or Central Animal Facility space is being used for surgery, the signature of the Central Animal Facility Director is also required. Applications may be signed in IRBNet or hard copies signed and submitted via IRBNet. All applications must be submitted via IRBNet.

The Attending Veterinarian and the Central Animal Facility staff may assist investigators in completing animal use protocol applications, train personnel, and conduct procedures described in the protocol.

The IACUC will send notice of approval, modifications required to secure approval, or disapproval via IRBNet. **Animals cannot be ordered without an approved animal use protocol.**

Each approved animal use protocol is reviewed annually. Protocol renewal application forms must be submitted in advance of the animal use protocol expiration date.

**PROTOCOL CLASSIFICATION:**

Research  Research/Training  Experimentation  Biological Testing

New  Revision  Pilot Study  4th Year Renewal  7th Year Renewal

**PROTOCOL TITLE:**

**1. PERSONNEL:**

Principal Investigator:

Phone:

Department:

Department Chairperson:

List all personnel involved in the animal-related part of the protocol. Each individual must complete and submit an [**IACUC Qualifications Form**](http://research.cc.lehigh.edu/content/iacuc-qualifications-form).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Responsibilities | Department | Title | Email |
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|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

(Attach additional pages if necessary)

Personnel to contact in case of emergencies after hours:

|  |  |  |
| --- | --- | --- |
| Name | Phone | Email |
|  |  |  |
|  |  |  |
|  |  |  |

(Attach additional pages if necessary)

**2. GRANT APPLICATION SUBMISSION DATE**      

Name of the agency to which you are applying for funding and proposal submission deadline.

**3. ABSTRACT OF RESEARCH**

**4. HYPOTHESIS OF RESEARCH**

**5. OBJECTIVES**

**6. LAYMAN'S PARAGRAPH**

Please describe your protocol in one paragraph using lay-language.

**7. ANIMALS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species | Strain | Age | Weight | Source of Animals |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. Is the source of the animals on the LU IACUC approved vendor list?

**YES** **NO**

1. Does the animal use in this protocol unnecessarily duplicate previous experiments?

**YES** **NO**

If **YES**, please explain:

1. Please state your rationale for involving animals in this research or training protocol (e.g., explain why a non-animal model could not be used).

1. Justify the appropriateness of the species selected for the study.

1. Provide the number of animals requested and the rationale for how the number of animals was determined to be appropriate. Whenever possible, the number of animals must be justified statistically. The following must be provided in the rationale section: 1) a brief description of the experimental design, including control and experimental groups and their sample sizes; 2) a description of the statistical method for determining sample size (e.g. a power analysis); 3) a statement of the probability value used to detect significant differences; 4) a statement of the effect size that will be considered substantive. See the IACUC’s Guidance on Justifying the Number of Animals in Research for more information on statistical justification.

An account of the number of the animals ordered will be recorded by the Central Animal Facility. To exceed the approved number, a protocol modification must be submitted to the IACUC.

**TOTAL NUMBER OF ANIMALS TO BE USED IN THIS PROTOCOL:**

**EXPERIMENTAL ANIMAL TOTAL:**

**TOTAL NUMBER OF ANIMALS BRED IN SUPPORT OF, BUT NOT USED IN EXPERIEMNTS:**

**RATIONALE:**

**8. METHODS AND PROCEDURES** (Specific to animals used in the protocol)

"*Procedures that may cause more than momentary slight pain or distress to the animals will be performed with appropriate sedation, analgesia, or anesthesia, unless the procedure is justified for scientific reasons..."* (PHS)

Brief description of the methods and procedures:

Provide a comprehensive list of each procedure used. Include all procedures, including those that do not require pain and/or distress-relieving drugs, such as injections:

Has the investigator performed the procedure(s) in the past three years?:

**YES** **NO**

If your procedure involves pain or distress to the animals used in the protocol such as surgery, please read section 9, **Surgery,** and Section 10, **Alternative Procedures**, before completing this section.

"*Procedures that may cause more than momentary slight pain or distress to the animals will be performed with appropriate sedation, analgesia, or anesthesia, unless the procedure is justified for scientific reasons..."* (PHS)

a. If sedation, analgesia, or anesthesia are not used, is there pain and/or distress in the animal?

**YES** **NO**  **N/A** (Sedation, analgesia, or anesthesia are used)

If **YES**, please give scientific justification stating why pain-relieving drugs cannot be used.

b. If sedation, analgesics, tranquilizers, and/or anesthesia is (are) used, please identify below:

|  |  |  |
| --- | --- | --- |
| Drug | Dosage | Route |
|  |  |  |
|  |  |  |
|  |  |  |

**9. SURGERY**

"Aseptic technique must be used on most animals, including lagomorphs (rabbits), that undergo major survival surgery. This technique includes wearing of sterile surgical gloves, gowns, caps, and face masks; use of sterile instruments; and aseptic preparation of surgical field." (The Guide)

"Survival surgery on rodents does not require a special facility but should be performed using sterile instruments, surgical gloves, and aseptic procedure to prevent clinical infections." (The Guide)

a. Will surgery be performed?:

**NO** If **NO**, please continue to Section 10, **“ALLEVIATION OF PAIN OR POTENTIAL DISTRESS”**

**YES** If **YES**, Will the animal be allowed to recover after surgery?

**NO** If **NO**, complete questions 1, 2 and 3.

**YES**  If **YES**, complete ***all*** questions (1 to 7)

1. Location of area in which surgery will take place.

2. List preanesthetics with dosages and routes of administration.

|  |  |  |
| --- | --- | --- |
| Preanesthetic | Dosage | Route of administration |
|  |  |  |
|  |  |  |
|  |  |  |

3. List anesthetics with dosages and routes of administration.

|  |  |  |
| --- | --- | --- |
| Anesthetic | Dosage | Route of administration |
|  |  |  |
|  |  |  |
|  |  |  |

1. List postoperative analgesics and dosages that may be used.

|  |  |  |
| --- | --- | --- |
| Postoperative analgesic | Dosage | Route of administration |
|  |  |  |
|  |  |  |
|  |  |  |

1. Describe post-operative monitoring procedures and list responsible personnel. Attach a copy of the form that will be used for monitoring and record-keeping. (Requested for dogs, cats, lagomorphs (rabbits) and non-human primates.)

6. "Multiple major survival surgical procedures on a single animal are discouraged... Cost savings alone is not adequate reason for performing multiple survival surgical procedures." (The Guide)

Will multiple major survival surgery be performed on the same animal?

**NO**  **YES** If **YES**, please provide scientific justification:

7. Categorize the surgical procedure(s) as “major” or “minor” (see “LU IACUC Guidance: Major and Minor Surgical Procedures” for definitions):

**MAJOR  MINOR**

**10. ALLEVIATION OF POTENTIAL PAIN OR DISTRESS: (Check, A, B, or C)**

|  |
| --- |
| A. No pain or distress will occur OR any pain or distress will be slight or momentary (i.e., injections, imaging, etc.) |
| B. Procedures which cause more than slight or momentary pain or distress will be employed (i.e., surgical procedures, etc.);  HOWEVER, appropriate drugs or other methods will be used to prevent or relieve significant pain or distress.  List methods to be used: *Example: ketamine (90 mg/kg)/xylazine (9mg/kg)* |
| C. No method is available for completely alleviating pain or distress, OR the available appropriate drugs would interfere with the experiment. |

**IF B OR C IS CHECKED.** The Animal Welfare Act requires that you indicate sources consulted to determine if there are alternative procedures that would reduce pain or distress associated with the experimental procedures. **All surgical procedures are considered to cause more than momentary or slight pain or distress to the animals, therefore an alternative to the procedure must be considered. Alleviation of pain by administration of anesthetics does not eliminate the need to address alternatives to the procedure.**

Indicate methods used to assess alternatives to each potentially painful procedure. Methods may include, consultation with experts, literature searches, etc. If there are less invasive/alternative procedures, describe them and explain why they cannot be used for your experiments.

**IF C IS CHECKED. *The Attending Veterinarian must be consulted on protocol design. The consultation must be documented and submitted with this application.***

For each potentially painful/invasive procedure, provide information on the procedure used to research and establish a lack of alternative methods or appropriate drugs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Procedure** | **Database(s) searched** | **Date of Search** | **Period covered by the search, e.g. 1/1/02-11/1/06** | **Keywords or search strategy used** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Please provide an explanation for the lack of available methods to completely alleviate pain or distress for each potentially painful procedure in this protocol. If the available appropriate drugs would interfere with the experiment, please specifically identify these drugs and explain why each drug cannot be used for your experiments.

**11. EUTHANASIA**

"Euthanasia means the humane destruction of an animal accomplished by a method that provides rapid unconsciousness and subsequent death without evidence of pain or distress, or a method that utilizes anesthesia produced by an agent that causes painless loss of consciousness and subsequent death." (Animal Welfare Act)

The IACUC follows the guidelines established by the American Veterinary Medical Association Panel.

Method of Euthanasia

Overdose of anesthesia

Identify anesthetic:

Cervical dislocation with anesthesia or sedation

Cervical dislocation without anesthesia or sedation

Justify reason for not using anesthesia or sedation:

Exsanguination under anesthesia or sedation

CO2

Other – Define:

**12.** **BIOHAZARDOUS MATERIALS**

a. Do any of the proposed procedures involve the use of biohazardous materials?

**NO** **BIOHAZARDOUS** materials will be used in or disposed of by Central Animal Facility.

**YES** **BIOHAZARDOUS** materials will be used. (documentation of [IBC approval](https://www.lehigh.edu/~inehs/policies/biohaz.html) must be provided with this protocol or submitted separately to the IACUC before IACUC approval will be granted):

Radioisotopes (researchers considering the use of radioisotopes MUST first contact EH&S

for review and approval by the [Radiation Safety Committee](https://www.lehigh.edu/~inehs/nrc.html))

Carcinogens, Teratogens, Mutagens, Chemicals

Infectious Agents or Organisms

Biological Toxins

Select Agents

Prions

Bloodborne Pathogens

Oncogenic viruses

Plant, animal or human pathogens

Recombinant DNA (rDNA) involving:

Human gene transfer

Creation of transgenic rodents

Breeding of two different strains of transgenic rodents at ABSL-2 or higher

Cloning genes using plasmids

Generating and use of vectors to deliver genes

Other – Define:

Briefly describe the planned use and handling of biohazardous materials:

b. Will tumor cells, tissue, sera, or other biologics from either animal or human sources be used in or on animals as part of the protocol?

**NO**

**YES**  If **YES**, what are the precautions that will be observed with materials or with live/dead animals?

**13.** **OTHER**

a. Will adjuvants be used? **NO**  **YES** If **YES**, identify:

Adjuvants

(If Freund's Complete Adjuvant is used, have any other adjuvants such as REPA, peanut oil, been considered?) Please provide justification:

Route of administration

Amount injected

b. Will there be a need to house animals outside of the Central Animal Facility more than 12 hours?

**NO**  **YES** If **YES**, Room number       Building

Please provide justification:

Describe precautions used to prevent the contamination of the area by the animals (e.g., smells, dander) and procedures to assure that animals are maintained in a humane manner and with limited human exposure:

c. Will genetically modified animals be used?

**NO  YES** If **YES**, describe the plan for monitoring to ensure the animals’ well-being:

\* Note that first offspring of a newly generated GMA line must be carefully observed from birth into early adulthood for signs of disease, pain, or distress. Conditions in a genetically modified animal that reveal a negative effect on animal well-being must be reported to the IACUC.

**14.** **REPORTING OF EXCEPTIONS**

USDA regulations allow for exceptions to full compliance at research facilities when these exceptions are approved by the IACUC. These exceptions are a part of the facility’s program for humane care and use of animals and are a part of its semiannual program review and IACUC report. They are also required to be reported annually to the USDA. The following list is offered to provide examples of exceptions considered reportable by USDA. This list is not all-inclusive and is intended only to provide examples of the types of exceptions that should be reported. If there are any questions concerning whether or not a particular exception at a facility is reportable, the Director of the Animal Facility should be contacted for further information. (See attached for USDA specifications)

**CHECK ANY REPORTABLE EXCEPTIONS**

(Veterinary medical exceptions need not be reported.)

Use of an animal in more than one protocol involving a major operative procedure from which it is allowed to recover.

Deprivation of food or water (i.e., inadequate nutrition and/or feeding less than once a day and/or watering less than twice a day for an hour each time).

Maintaining animals at temperatures and/or humidities outside the ranges specified by the standards.

Not cleaning and/or sanitizing at required frequencies.

Not providing diurnal lighting as required.

Not meeting space requirements (including innovative enclosures).

Other (explain)

None

**REPORTABLE EXCEPTIONS:**

While a full scientific explanation of the exception must be included in the body of this protocol or attached to the

protocol, the IACUC is required to provide a brief summary to the Institutional Official.

Please provide a brief paragraph justifying the exception:

**APPROVALS AND CERTIFICATIONS**

By signing below or via IRBNet, I certify that I will conduct my research activities specifically as outlined in this animal use protocol application form. If during the course of these activities I need to make any alterations, I will submit a protocol modification form.

I certify that I will follow and ensure conformity to the Guide for the Care and Use of Laboratory Animals (the Guide), the Federal Animal Welfare Act, and all LU IACUC and CAF policies and procedures. I will humanely treat all animals used in my protocol. I understand that I must obtain annual reapproval.

I certify that as Principal Investigator, I accept ultimate responsibility for the conduct of my research protocol and for the care of the animals that are used in my animal use protocol. I accept responsibility for monitoring and overseeing all work, ensuring that personnel who perform work under the protocol are prepared and able to do so properly, and providing project-specific training to all personnel. I accept responsibility for ensuring that caretakers understand the necessary details of assigned projects and the importance of proper care of animals. I accept responsibility for continual assessment of student investigators’ capabilities considering their levels of skill and development as investigators, as well as their obligations, and will assign work accordingly so as to avoid compromising animal welfare.

Principal Investigator Date

By signing below or via IRBNet, I certify that the information provided on this animal use protocol applications form accurately reflects the nature of activities proposed.

Department Chairperson Date

If animals are being housed in the Central Animal Facility and/or Central Animal Facility space is being used for surgery, the signature of the Central Animal Facility Director is required. Signatures may be completed via IRBNet.

Central Animal Facility Director Date

(Approved by the Office of Management and Budget under control number 0579-0093)

**Subpart B - Specifications for the Humane Handling, Care, Treatment and Transportation of Guinea Pigs and Hamsters**

FACILITIES AND OPERATING STANDARDS

**3.25 Facilities, general**.

(a) *Structural strength.* Indoor and outdoor housing facilities for guinea pigs or hamsters shall be structurally sound and shall be maintained in good repair, to protect the animals from injury, to contain the animals, and to restrict the entrance of other animals.

(b) *Water and electrical power.* Reliable and adequate electric power, if required to comply with other provisions of this subpart, and adequate potable water shall be available.

(c) *Storage.* Supplies of food and bedding shall be stored in facilities which adequately protect such supplies against spoilage or deterioration and infestation or contamination by vermin. Food supplies shall be stored in containers with tightly fitting lids or covers or in the original containers as received from the commercial sources of supply. Refrigeration shall be provided for supplies of perishable food.

(d) *Waste disposal.* Provisions shall be made for the removal and disposal of animal and food wastes, bedding, dead animals, and debris. Disposal facilities shall be so provided and operated as to minimize vermin infestation, odors, and disease hazards.

(e) *Washroom and sinks.* Facilities, such as washrooms, basins, or sinks, shall be provided to maintain cleanliness among animal caretakers.

[32 FR 3273, Feb. 24, 1967, as amended at 44 FR 63492, Nov. 2, 1979]

**3.26 Facilities, indoor.**

(a) *Heating.* Indoor housing facilities for guinea pigs or hamsters shall be sufficiently heated when necessary to protect the animals from the cold, and to provide for their health and comfort. The ambient temperature shall not be allowed to fall below 60OF nor not to exceed 850.

(b) *Ventilation.* Indoor housing facilities for guinea pigs or hamsters shall be adequately ventilated to provide for the health and comfort of the animals at all times. Such facilities shall be provided with fresh air either by means of windows, doors, vents, or air conditioning, and shall be ventilated so as to minimize drafts, odors, and moisture condensation. The ambient temperature shall not be allowed to rise above 850F.

(c) *Lighting.* Indoor housing facilities for guinea pigs or hamsters shall have ample light, by natural or artificial means, or both, of good quality and well distributed. Such lighting shall provide uniformly distributed illumination of sufficient light intensity to permit routine inspection and cleaning during the entire working period. Primary enclosures shall be so placed as to protect the guinea pigs or hamsters from excessive illumination.

(d) *Interior surfaces.* The interior building surfaces of indoor housing facilities shall be constructed and maintained so that they are substantially impervious to moisture and may be readily sanitized.

**3.27 Facilities, outdoor.**

(a) Hamsters shall not be housed in outdoor facilities.

(b) Guinea pigs shall not be housed in outdoor facilities unless such facilities are located in an appropriate climate and prior approval for such outdoor housing is obtained from the Deputy Administrator.

**3.28 Primary enclosures.**

All primary enclosures for guinea pigs and hamsters shall conform to the following requirements:

(a) *General.* (1) Primary enclosures shall be structurally sound and maintained in good repair to protect the guinea pigs and hamsters from injury. Such enclosures, including their racks, shelving and other accessories, shall be constructed of smooth material substantially impervious to liquids and moisture.

(2) Primary enclosures shall be constructed and maintained so that the guinea pigs or hamsters contained therein have convenient access to clean food and water as required in this subpart.

(3) Primary enclosures having a solid floor shall be provided with clean bedding material.

(4) Primary enclosures equipped with mesh or wire floors shall be so constructed as to allow feces to pass through the spaces of the mesh or wire: *Provided, however,* that such floors shall be constructed so as to protect the animals feet and legs from injury.

(b) *Space requirements for primary enclosures acquired before August 15, 1990. -* (1) *Guinea pigs and hamsters.* Primary enclosures shall be constructed and maintained so as to provide sufficient space for each animal contained therein to make normal postural adjustments with adequate freedom of movement.

(2) *Guinea pigs.* In addition to the provisions of paragraph (b)(1) of this section, the following space requirements are applicable to primary enclosures for guinea pigs:

(i) The interior height of any primary enclosure used to confine guinea pigs shall be at least 6  inches.

(ii) Each guinea pig housed in a primary enclosure shall be provided a minimum amount of floor space in accordance with the following table:

|  |  |
| --- | --- |
| Weight or stage of maturity | Minimum  space per  guinea pig  (square inches) |
| Weaning to 350 grams | 60 |
| 350 grams or more | 90 |
| Breeders | 180 |

(3) *Hamsters.* In addition to the provisions of paragraph (b)(1) of this section, the following space requirements are applicable to primary enclosures for hamsters:

(i) The interior height of any primary enclosure used to confine hamsters shall be at least 5  inches, except that in the case of dwarf hamsters, such interior height shall be at least 5 inches.

(ii) A nursing female hamster, together with her litter, shall be housed in a primary enclosure which contains no other hamsters and which provides at least 121 square inches of floor space: *Provided, however,* that in the case of dwarf hamsters such floor space shall be at least 25 square inches.

(iii) The minimum amount of floor space per individual hamster and the maximum number of hamsters allowed in a single primary enclosure, except as provided for nursing females in paragraph (b)(3)(ii) of this section, shall be in accordance with the following table:

Minimum space per

hamster (square inches)

|  |  |  |  |
| --- | --- | --- | --- |
| Age | Dwarf | Other | Maximum population per enclosure |
| Weaning to 5 weeks | 5.0 | 10.0 | 20 |
| 5 to 10 weeks | 7.5 | 12.5 | 16 |
| 10 weeks or more | 9 | 15.0 | 13 |

(c) *Space requirements for primary enclosures acquired on or after August 15, 1990 -* (1) *Guinea pigs.* (i) Primary enclosures shall be constructed and maintained so as to provide sufficient space for each guinea pig contained therein to make normal postural adjustments with adequate freedom of movement.

(ii) The interior height of any primary enclosure used to confine guinea pigs shall be at least 7 inches (17.78 cm).

(iii) Each guinea pig shall be provided a minimum amount of floor space in any primary enclosure as follows:

Minimum floor

Space

|  |  |  |
| --- | --- | --- |
| Weight or stage of maturity | in2 | cm2 |
| Weaning to 350 grams | 60 | 387.12 |
| >350 grams | 101 | 651.65 |
| Nursing females with their litters | 101 | 651.65 |

(2) *Hamsters.* (i) Primary enclosures shall be constructed and maintained so as to provide sufficient space for each hamster contained therein to make normal postural adjustments with adequate freedom of movement.

(ii) The interior height of any primary enclosure used to confine hamsters shall be at least 6 inches (15.24 cm).

(iii) Except as provided in paragraph (c)(2)(iv) of this section, each hamster shall be provided a minimum amount of floor space in any primary enclosure as follows:

Weight Minimum floor

space per

hamster

|  |  |  |  |
| --- | --- | --- | --- |
| g | ozs | in2 | cm2 |
| <60 | <2.1 | 10 | 64.52 |
| 60 to 80 | 2.1-2.8 | 13 | 83.88 |
| 80 to 100 | 2.8-3.5 | 16 | 103.23 |
| >100 | >3.5 | 19 | 122.59 |

(iv) A nursing female hamster, together with her litter, shall be housed in a primary enclosure that contains no other hamsters and that provides at least 121 square inches of floor space: Provided, however, that in the case of nursing female dwarf hamsters such floor space shall be at least 25 square inches.

(3) Innovative primary enclosures that do not precisely meet the space requirements of paragraph (c)(1) or (c)(2) of this section, but that do provide guinea pigs or hamsters with a sufficient volume of space and the opportunity to express species-typical behavior, may be used at research facilities when approved by the Institutional Animal Care and Use Committee, and by dealers and exhibitors when approved by the Administrator.

[32 FR 3273, Feb. 2, 1967, as amended at 55 FR 28882, July 16, 1990]

ANIMAL HEALTH AND HUSBANDRY STANDARDS

**3.29 Feeding.**

(a) Guinea pig and hamsters shall be fed each day except as otherwise might be required to provide adequate veterinary care. The food shall be free from contamination, wholesome, palatable and of sufficient quantity and nutritive value to meet the normal daily requirements for the condition and size of the guinea pig or hamster.

(b) Food comprising the basic diet shall be at least equivalent in quality and content to pelleted rations produced commercially and commonly available from feed suppliers.

(c) The basic diet of guinea pigs and hamsters may be supplemented with good quality fruits or vegetables consistent with their individual dietary requirements.

(d) Food receptacles, if used, shall be accessible to all guinea pigs or hamsters in a primary enclosure and shall be located so as to minimize contamination by excreta. All food receptacles shall be kept clean and shall be sanitized at least once every 2 weeks. If self-feeders are used for the feeding of pelleted feed, measures must be taken to prevent molding, deterioration or caking of the feed. Hamsters may be fed pelleted feed on the floor of a primary enclosure.

(e) Fruit or vegetables food supplements may be placed upon the bedding within the primary enclosure: *Provided, however,* That the uneaten portion of such supplements and any bedding soiled as a result of such feeding practices shall be removed from the primary enclosure when such uneaten supplements accumulate or such bedding becomes soiled to a degree that might be harmful or uncomfortable to the animals therein.

**3.30 Watering.**

Unless food supplements consumed by guinea pigs or hamsters supply them with their normal water requirements, potable water shall be provided daily except as might otherwise be required to provide adequate veterinary care. Open containers used for dispensing water to guinea pigs or hamsters shall be so placed in or attached to the primary enclosure as to minimize contamination from excreta. All watering receptacles shall be sanitized when dirty: *Provided, however,* that such receptacles shall be sanitized at least once every 2 weeks.

**3.31 Sanitation.**

(a) *Cleaning and sanitation of primary enclosures.* (1) Primary enclosures shall be cleaned and sanitized often enough to prevent an accumulation of excreta or debris: *Provided, however,* That such enclosures shall be sanitized at least once every 2 weeks in the manner provided in paragraph (a)(4) of this section.

(2) In the event a primary enclosure becomes soiled or wet to a degree that might be harmful or uncomfortable to the animals therein due to leakage of the watering system, discharges from dead or dying animals, spoiled perishable foods, or moisture condensation, the guinea pigs or hamsters shall be transferred to clean primary enclosures.

(3) Prior to the introduction of guinea pigs or hamsters into empty primary enclosures previously occupied, such enclosures shall be sanitized in the manner provided in paragraph (a)(4) of this section.

(4) Primary enclosures for guinea pigs or hamsters shall be sanitized by washing them with hot water (1800 F.) and soap or detergent as in a mechanical cage washer, or by washing all soiled surfaces with a detergent solution followed by a safe and effective disinfectant, or by cleaning all soiled surfaces with live steam.

(b) *Housekeeping.* Premises (buildings and grounds) shall be kept clean and in good repair in order to protect the animals from injury and to facilitate the prescribed husbandry practices set forth in this subpart. Premises shall remain free of accumulations of trash.

(c) *Pest control.* An effective program for the control of insects, ectoparasites, and avian and mammalian pests shall be established and maintained.

**3.32 Employees.**

A sufficient number of employees shall be utilized to maintain the prescribed level of husbandry practices set forth in this subpart. Such practices shall be under the supervision of an animal caretaker who has a background in animal husbandry or care.

**3.33 Classification and separation.**

Animals housed in the same primary enclosure shall be maintained in compatible groups, with the following additional restrictions:

(a) Except where harem breeding is practiced, preweaning guinea pigs shall not be housed in the same primary enclosure with adults other than their parents.

(b) Guinea pigs shall not be housed in the same primary enclosure with hamsters, nor shall guinea pigs or hamsters be housed in the same primary enclosure with any other species of animals.

(c) Guinea pigs or hamsters under quarantine or treatment for a communicable disease shall be separated from other guinea pigs or hamsters and other susceptible species of animals in such a manner as to minimize dissemination of such disease.

APPROVED VENDOR LIST FOR ANIMAL PURCHASES

The Jackson Laboratory

AWA Assurance Number: A3268-01

600 Main Street

Bar Harbor, ME 04609-1550

Phone: 800-422-6423

https://www.jax.org/jax-mice-and-services/find-and-order-jax-mice

Charles River Laboratories

AWA Assurance Number: A3863-01

251 Ballardvale Street

Wilmington, MA 01887

Phone: 877-274-8371

http://www.criver.com/find-a-model?loc=US

Harlan Sprague Dawley / Envigo RMS Inc.

AWA Assurance Number: A3738-01

P.O. Box 29176

Indianapolis, IN 46229-0176

Phone: 800-793-7287

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