

## Purdue University Laboratory Animal Program Standards of Care

### Title: Husbandry Care of Non-USDA covered Rodents

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I. Purpose:

The purpose of this policy is to outline the minimum standards of care for non-USDA covered rodents: mice of the genus *Mus* and rats of the genus *Rattus* purpose bred for research.

II. Policy:

All units providing animal care for non-USDA covered rodents must meet or exceed these minimum requirements based on the ILAR Guide for the Care and Use of Laboratory Animals (*Guide*). Deviations or exceptions must be approved by the Attending Veterinarian and the IACUC.

III. Procedure:

**Daily (365 days a year without exception):**

- Observe each animal and check for health concerns (*Guide* pg. 112).
- Ensure adequate feed and potable water is available (*Guide* pg. 65-68).
- Record sick and dead animals and report findings to LAP Veterinary Services or designated clinical veterinarian per standard operating procedure for reporting sick or dead animals.
- Record/document minimum and maximum temperatures and humidity.
  - Temperature range for rodents is 68°F to 79°F (*Guide* pg. 44).
  - Humidity range for rodents is 30% to 70% (*Guide* pg. 44).
- Change any excessively soiled or flooded cages (*Guide* pg. 70).
- Clean and organize room, anterooms, and surrounding premises (*Guide* pg. 72).
- Record daily completion of each task, initial each task, and date the log.

**Weekly:**

- Provide clean static microisolator cages (*Guide* pg. 70).
- Provide clean catch pans for wire-floor caging (*Guide* pg. 70).
- Provide clean bottles and sipper tubes (*Guide* pg. 70).

**Biweekly:**

- Provide clean individually ventilated cages (*Guide* pg. 70).

**As needed:**

- Disinfect the animal room including walls, floors, and ceilings (if possible) (*Guide* pg. 72).
- Remove and replace worn or damaged equipment from primary enclosures and surrounding facility (*Guide* pg. 72).
- Chow must be discarded after 6 months of the milling date unless manufacturer guidelines recommend a shorter or longer expiration date (*Guide* pg. 66).
- Clean and sanitize feed storage containers at least every 6 months (*Guide* pg. 67).
- Each facility will develop their own best practices with sanitization typically occurring every 6 months or whenever there is a change in species but may vary with facility.

**Environmental Enrichment:**

- Refer to SOP # 305 - Social and Environmental Enrichment Program for Research and Teaching Animals

**Facilities:**

- Temperature alarms must be installed in all rooms housing rodents (*Guide* pg. 143).
- Adequate ventilation must be provided for the health and comfort of the animal at all times.
  - A minimum of 10-15 fresh room air exchanges per hour shall be provided in animal housing areas (*Guide* pg. 46). IACUC-approved PI- maintained housing within lab spaces may be exempt.
- Floors shall be moisture-resistant, non-absorbent, impact-resistant, and relatively smooth (*Guide* pg. 137).

**Housing:**

- Whenever possible, rodents should be socially housed in compatible groups (*Guide* pg. 51).
- Floor space taken up by food bowls, water containers, litter boxes, and enrichment devices (e.g., novel objects, toys, foraging devices) should not be considered part of the floor space (*Guide* pg. 56).

Space requirements for mice of the genus <i>Mus</i> :		
Weight (g)	Floor Area/Animal (in <sup>2</sup> )	Height (in)
<10	6	5
Up to 15	8	5
Up to 25	12	5
>25	≥15	5
Female with litter	51	5
( <i>Guide</i> pg. 57)		

Space requirements for rats of the genus *Rattus*:

Weight (g)	Floor Area/Animal (in <sup>2</sup> )	Height (in)
<100	17	7
Up to 200	23	7
Up to 300	29	7
Up to 400	40	7
Up to 500	60	7
>500	≥70	7
Female with litter	124	7

(Guide pg.  
57)