The University of Kansas (KU)
Animal Care Unit (ACU)

Standard Operating Procedure
Rodent Quarantine for Animals from Non-Approved Vendor Sources

1.0 Scope and Application

The rodent quarantine program is designed to prevent the introduction of rodent pathogens into established university colonies. The program isolates newly acquired rodents from non-approved vendor sources until their health status can be determined. This process is meant to maximize the probability that microorganisms of concern will be detected before the animals are introduced into established colonies.

2.0 Summary of Method

- The principal investigator must complete and submit a Non Approved Vendor Source Rodent Request to the ACU. The ACU shipping coordinator will contact the institution or vendor of origin to request completion of the Rodent History Questionnaire and submission of health monitoring reports. After receipt and review of completed documents and recent health monitoring reports, an ACU veterinarian will make a decision regarding importation. If permission is granted, an ACU veterinarian will specify the duration and intensity of quarantine procedures.

- The ACU husbandry supervisor, in consultation with the ACU director, must identify and designate a room/cubicle for quarantine of non-approved vendor source rodents. Inasmuch as possible, the designated area should be physically separated from other rodent housing areas. In all cases, the area must be separated from other rodent housing rooms by work and traffic flow patterns. The quarantine area’s airflow must be maintained at a pressure negative to other cubicles, rooms, and common corridors.

- Rodents from non-approved vendor sources must only be received at the University of Kansas after verifying an approved KU IACUC Animal Use Statement and securing import approval from an ACU veterinarian. All shipping containers containing non-approved vendor source rodents must be sprayed with an appropriate disinfectant (Clidox, MB-10) while on the loading dock and before being transferred to the quarantine area. After assessing the condition of the animals, the investigator and/or investigator’s staff should be notified of the animals’ arrival.

- The minimum quarantine period for all non-approved vendor source rodents is six (6) weeks. During the quarantine period, all rodents will be housed in static micro-isolator cages and provided care consistent with their needs. At the discretion of ACU veterinarians, quarantined rodents may be provided Mite-Arrest and/or fenbendazole medicated chow. Indirect sentinels will be maintained for each shipment/group of non-approved vendor source rodents. Sentinel animals will be pair housed in static, isolator cages and provided care consistent with the husbandry practices of the quarantined animals. Sentinel animals will receive twice weekly exposure to soiled bedding from each quarantined cage; bedding transfer should be of sufficient quantity to ensure exposure is maximized.
• A dedicated husbandry technician must be assigned to the quarantine room and daily animal care in this room must be performed as the final daily task. When servicing the room, the technician must wear all prescribed personal protective equipment. Gloves must be changed between shipments/groups of animals. The most recently acquired or the most highly suspect animals within the room must be serviced last. Weekend and holiday servicing must be performed as the final task of the day by the assigned technician. After entering the quarantine area, personnel are not permitted to enter any other animal housing area until the following day.

• Research personnel must not enter the quarantine area unless clearance has been obtained from an ACU veterinarian. Additionally, no experimental manipulations or breeding can be initiated during the quarantine period unless exceptional circumstances apply and prior approval has been granted by an ACU veterinarian.

• The ACU shipping coordinator is responsible for maintaining a room log identifying the specific animal orders undergoing quarantine. The log must include information regarding anticipated quarantine release dates in order to allow investigators to plan research manipulations.

• At the conclusion of the quarantine period, sentinel animals will be anesthetized using inhalational isoflurane and blood will be collected via the retro-orbital sinus, maxillary/facial vein, or heart. Following blood collection, animals will be euthanized by isoflurane or carbon dioxide overdose. Death will be insured by cervical dislocation. After euthanasia, anal tape impressions, gross necropsies, and evaluation of cecal contents and cooled sample pelage will be performed.

• After reviewing serology and parasitology reports, an ACU veterinarian will determine if animals can be released from quarantine. Written notification must be received from an ACU veterinarian before any animal(s) can be released.

• Upon successful completion of the quarantine period, the ACU husbandry supervisor should notify the investigator of the animal’s permanent holding room assignment. Animals must be placed in covered caging while in transit to their holding room.

3.0 Definitions of Method

Unapproved vendors include any source other than Charles River, Jackson Labs, Harlan, NCI-Frederick and Taconic.

Revision History

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