SOP: **LARC-01** Title: **Rodent Acquisition & Quarantine from Non-Approved Vendors**
SOP Last Revision Date: 18MAY09

PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to describe process by which rodents are acquired from other institutions or laboratories and introduced to UMKC animal facilities with minimal risk to the health of the UMKC mouse colony population. This SOP applies to animals housed at the Laboratory Animal Research Core's animal facilities on the campus of the University of Missouri-Kansas City.

POLICY

It is LARC policy to meet or exceed all federal, state, local regulations and institutional policies/procedures as they apply to the use of animals in research. Personnel must attend any applicable training in animal care and use, occupational health and safety, equipment operation, and Standard Operating Procedures prior to performing activities outlined in this SOP or work under the direct supervision of a trained LARC staff member.

REFERENCES

A. Laboratory Animal Research Core Personnel

B. http://www.radil.missouri.edu/

C. *LARC-14 Animal Shipment Procedures*

D. *LARC-02 Rodent Sentinel Program*

DEFINITIONS

A. Exclusion List Agents = A list of potentially pathogenic or harmful agents that can have negative impacts on research results.
B. Fenbendazole = medication added to rodent feed to eliminate endoparasites, notably pinworms.
C. RADIL = Research Animal Diagnostic Laboratory-University of Missouri-Columbia. This is the chosen vendor for sample diagnostic testing.

PROCEDURES

A. Overview

a. Animals are shipped into UMKC according to procedures outlines in *LARC-14 Animal Shipment Procedures*.

b. All animals that are received from non-approved vendors MUST go through a minimum of 8 weeks quarantine period before entering general population.

c. Some agents on the exclusion list may be allowed given some circumstances discussed with the Investigator, LARC management and LARC Veterinarian.

B. Receiving Rodents

a. Requests for acquisition of are made to LARC according to *LARC-14 Animal Shipment Procedures*.

b. NOTE: while in quarantine, investigators will NOT have access to their animals.

c. After success of quarantine tests (minimum 8 weeks and up to 12 weeks) the investigator is allowed to introduce the animals into general population.

C. Common Procedures for Quarantined Rodents

a. Upon receipt the shipping crate is sprayed with a disinfectant solution and allowed to set 15 minutes before being opened.

b. The technician uncrating the mice examines the mice for illness or injury and examines the shipping documents for accuracy.

c. Fecal samples may be collected and sent to RADIL for Helicobacter testing upon arrival.

d. Routine cage changes occur within a biosafety cabinet following clean transfer technique, or in a negative air pressure isolator.

e. Routine medications that may be prescribed as health status reports indicate. As examples, Fenbendazole mediated diet is indicated for mice with pinworms and Baytril in drinking water for mice with *Pasturella pneumotropica.*

f. After arrival and uncrating, the veterinary technician will examine the mice in the shipment and may perform a perianal tape test on several animals within the shipment examining for *Syphacia* infection as well as collect pooled feces from all cages to perform a fecal flotation to check for *Aspicularis* infection.

g. All quarantine results and concerns are discussed with the LARC Veterinarian and the investigator.

h. The animals will undergo a sentinel program outlined in SOP *LARC-02 Rodent Sentinel Program*

D. Documentation

a. All records are maintained by the LARC.

E. UMKC Exclusion Agent List

i. Parasitolgy
   1. Ectoparasites
   2. Endoparasites

ii. Microbiology
   1. *Pasturella pneumotropica*
   2. *Corynebacterium kutscheri*
   3. *Mycoplasma pulmonis*
   4. *Salmonella spp.*
   5. Citrobacter rodentium

iii. Serology
   1. MHV
   2. MMV
   3. MPV
   4. Sendai
   5. Mycoplasma pulmonis
   6. TMEV
   7. EDIM
   8. PVM
   9. Reo3
   10. LCM
   11. Ectromelia
   12. MAD1
   13. MAD2
   14. Polyoma
   15. Encephalitozoon cuniculi
   16. CARB
   17. Tyzzer's
   18. MCMV

iv. Polymerase Chain Reaction
   1. *Helicobacter sp.*