

1. PURPOSE

This Standard Operating Procedure (SOP) describes pathogens to be monitored for possible exclusion from rodent facilities.

2. RESPONSIBILITY

Veterinary care staff, facility manager, principal investigator (PI).

3. PROCEDURES

- 3.1. If a pathogen on the below monitored and excluded lists is found in a rodent facility, take the following actions:
 - 3.1.1. Immediately isolate the rodents into a designated quarantine facility as directed by a veterinarian.
 - 3.1.2. Establish with PI, whenever possible, an eradication strategy (depopulation, derivation, etc.).
- 3.2. If a pathogen on the monitored lists below is found, the action to be taken will be decided on a case-by-case basis by the veterinarian, the PI and facility supervisor/manager.

3.3. Excluded pathogens for mice:

- pathogens monitored and excluded
- pathogens monitored

	LEVEL 1 & 2	LEVEL 3	LEVEL 3+	LEVEL 4
VIRUSES				
Adenovirus Type 1 & 2		●	●	●
Ectromelia (mousepox)		●	●	●
Lymphocytic Choriomeningitis Virus (LCMV)		●	●	●
Mouse Coronavirus (MHV)	●	●	●	●
Mouse Parvoviruses (MPV, MVM)	●	●	●	●
Mouse Kidney Parvovirus (MKPV)			●	●
Mouse Rotavirus (EDIM)	●	●	●	●
Mouse Theilovirus (TMEV, GDVII)	●	●	●	●
Murine Norovirus (MNV)	○	○	●	●
Pneumonia Virus of Mice (PVM)		●	●	●
Reovirus Type 1,2,3,4		●	●	●
Sendai virus		●	●	●
BACTERIA				
<i>Bordetella bronchiseptica</i>		●	●	●
<i>Bordetella hinzii</i>				●
<i>Campylobacter</i>				●
<i>CAR Bacillus</i>		●	●	●
<i>Citrobacter rodentium</i>		●	●	●
<i>Clostridium piliforme</i> (Tyzzer's)		●	●	●
<i>Corynebacterium kutscheri</i>		●	●	●
<i>Corynebacterium bovis</i>			●	●
<i>Helicobacter</i>		○	●	●
<i>Klebsiella spp.</i>		○	○	●
<i>Mycoplasma pulmonis</i>		●	●	●
<i>Rodentibacter</i>		○	○	●
<i>Proteus mirabilis</i>				●
<i>Pseudomonas aeruginosa</i>		○	○	●
<i>Salmonella</i>		●	●	●
<i>Staphylococcus aureus</i>				○
<i>Streptobacillus moniliformis</i>		●	●	●
<i>Streptococcus pneumoniae</i>		○	○	●
Beta Hemolytic <i>Streptococcus</i> groups A,B,C,G		○	○	●
PARASITES/PROTOZOA/FUNGI				
<i>Cryptosporidium</i>				●
<i>Demodex</i>				●
<i>Entamoeba</i>				●
Fur mites (<i>Myobia</i> , <i>Myocoptes</i> , <i>Radforia</i>)	●	●	●	●
<i>Giardia</i>				●
Pinworms (<i>Aspicularis</i> , <i>Syphacia</i>)	●	●	●	●
<i>Pneumocystis</i>			●	●
<i>Spiroplasma muris</i>		○	○	●
<i>Trichomonas</i>				●

3.4.

3.4. Excluded pathogens for rats:

- pathogens monitored and excluded
- pathogens monitored

	LEVEL 1 & 2	LEVEL 3
VIRUSES		
Sialodacryoadenitis virus/Rat Coronavirus (SDAV /RCV)	●	●
Rat Parvoviruses (H-1, KRV, RPV, RMV, NS-1)	●	●
Pneumonia Virus of Mice (PVM)		●
Reovirus Type 1,2,3,4		●
Theilovirus (RTV)	●	●
Sendai virus		●
BACTERIA/FUNGI		
<i>Bordetella bronchiseptica</i>		○
<i>CAR Bacillus</i>		●
<i>Citrobacter spp.</i>		●
<i>Clostridium piliforme</i> (Tyzzer's)		●
<i>Corynebacterium kutscheri</i>		●
<i>Klebsiella spp.</i>		○
<i>Mycoplasma pulmonis</i>		●
<i>Pneumocystis carinii</i>	○	○
<i>Rodentibacter</i>		○
<i>Pseudomonas aeruginosa</i>		○
<i>Salmonella</i>		●
<i>Streptobacillus moniliformis</i>		●
<i>Streptococcus pneumoniae</i>		○
Beta Hemolytic <i>Streptococcus</i> groups A,B,C,G		○
PARASITES		
Fur mites (<i>Myobia</i> , <i>Myocoptes</i> , <i>Radforia</i>)	●	●
Pinworms (<i>Aspicularis</i> , <i>Syphacia</i>)	●	●
<i>Spirotrunculus muris</i>	○	○

3.5. Excluded pathogens for hamsters:

- pathogens monitored and excluded
- pathogens monitored

LEVEL 1 & 2	
VIRUSES	
Lymphocytic Choriomeningitis Virus (LCMV)	●
Sendai virus	●
BACTERIA/FUNGI	
<i>Pasteurella pneumotropica</i>	○
PARASITES	
Fur mites	●
Pinworms	●
<i>Spironucleus muris</i>	●

3.6. Excluded pathogens for guinea pigs:

- pathogens monitored and excluded
- pathogens monitored

LEVEL 1 & 2	
VIRUSES	
Guinea Pig Adenovirus	●
Guinea Pig PIV 3	●
Sendai virus	●
BACTERIA/FUNGI	
<i>Bordetella bronchiseptica</i>	●
<i>Corynebacterium kutscheri</i>	●
<i>Streptococcus pneumoniae</i>	○
Beta Hemolytic <i>Streptococcus</i> groups A,B,C,G	○
PARASITES	
<i>Spironucleus muris</i>	●

SOP REVISION HISTORY

DATE	NEW VERSION
2016.03.14	3.3 Excluded pathogens for mice: <i>Corynebacterium bovis</i> monitored for immunodeficient mice only
2017.01.27	3.6 Excluded pathogens for guinea pigs: <i>Bordetella bronchiseptica</i> is monitored and excluded
2018.12.06	3.3. Excluded pathogens for mice: Level 3+ added and all lists updated.
2019.01.30	3.3. Excluded pathogens for mice: Level 4 lists updated, <i>S. aureus</i> monitored only, not excluded.
2021.05.14	3.3. Excluded pathogens for mice: Pasteurella pneumotropica Rodentibacter , Mouse Kidney Parvovirus (MKPV)
2021.05.14	3.4. Excluded pathogens for rats: Pasteurella pneumotropica Rodentibacter