



**CARE 545.01 Pathogens Excluded from Rodent Facilities**

The intent of this standard operating procedure (SOP) is to describe pathogens to be monitored for possible exclusion from rodent facilities. This SOP is intended for use by CARE veterinary staff, facility managers and principal investigators. This SOP is approved by the Cornell Institutional Animal Care and Use Committee (IACUC) and the Cornell Center for Animal Resources and Education (CARE). Any exemption must be submitted for approval by the IACUC, prior to its application.

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**1. Introduction**

This SOP describes the pathogens to be monitored for possible exclusion from rodent facilities. The details of this document to are be applied in review of health status for all incoming rodents (including approved vendors) and resident rodents. Refer to [CARE SOP 602.01](#) for the Rodent Health Monitoring Program.

**2. Materials N/A**

**3. Procedures**

- a. If the health report for incoming animals is positive for pathogens on the below monitored and excluded lists, the results must be reviewed and approved by a CARE veterinarian prior to receipt of animals.
- b. If a pathogen on the below monitored and excluded lists is found in a rodent facility, take the following actions:
  - i. Immediately isolate the rodents into a designated quarantine facility as directed by a CARE veterinarian.
  - ii. CARE: establish with PI, whenever possible, an eradication strategy (depopulation, derivation, etc.).
- c. 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 CARE, the PI and manager.
- d. The following tables list pathogens by species.

Barrier ("Clean") Facilities for Mice		
VIRUSES	BACTERIA/FUNGUS	PARASITES
<b>Pathogens Monitored and Excluded</b>		
Ectromelia	<i>Bordetella bronchiseptica</i>	Ectoparasites
EDIM	CARB	Endoparasites (excluding protozoans considered to be natural, commensal)

		flora)
LCM	<i>Citrobacter rodentium</i>	<i>Encephalitozoon cuniculi</i>
Mouse Adenovirus (1 & 2)	<i>C. piliforme</i> (Tyzzers)	
MCMV	<i>Corynebacterium kutscheri</i>	
MHV	<i>Helicobacter</i>	

Barrier ("Clean") Facilities for Mice		
VIRUSES	BACTERIA/FUNGUS	PARASITES
<b>Pathogens Monitored and Excluded, cont.</b>		
MNV	<i>Klebsiella</i> spp.	
Parvo (MPV, MVM)	<i>Mycoplasma pulmonis</i>	
Polyoma virus	<i>Pasteurella pneumotropica</i>	
PVM	<i>Pneumocystis carinii</i> (immunodeficient mice only)	
REO3	<i>Pseudomonas aeruginosa</i>	
Sendai	<i>Salmonella</i>	
TMEV-GDVII	<i>Streptobacillus moniliformis</i>	
	<i>Streptococcus pneumoniae</i>	
	<i>Streptococcus</i> spp. (A,B,C)	

Barrier ("Accepted Pathogen") and Conventional Facilities for Mice		
VIRUSES	BACTERIA/FUNGUS	PARASITES
<b>Pathogens Monitored and Excluded</b>		
Ectromelia#	CARB#	Endoparasites (excluding protozoans considered to be natural, commensal flora)
EDIM	<i>Citrobacter rodentium</i> #	Ectoparasites
LCM #	<i>C. piliforme</i> (Tyzzers)#	<i>Encephalitozoon cuniculi</i>
Mouse Adenovirus (1 & 2)#	<i>Corynebacterium kutscheri</i> #	
MCMV#	<i>Mycoplasma pulmonis</i>	
MHV	<i>Pseudomonas aeruginosa</i> #	
Parvo (MPV, MVM)	<i>Salmonella</i> #	
Polyoma#	<i>Streptobacillus moniliformis</i> #	
PVM#	<i>Streptococcus pneumoniae</i> #	
REO3#	<i>Streptococcus</i> spp. (A,B,C)#	
Sendai		
TMEV-GDVII		
<b>Pathogens Monitored</b>		
MNV	<i>Helicobacter</i>	

	<i>Klebsiella</i> spp.	
	<i>Pasteurella pneumotropica</i>	

# These tests are performed on breeding colonies only.

Conventional Facilities for Rats		
VIRUSES	BACTERIA/FUNGUS	PARASITES
<b>Pathogens Monitored and Excluded</b>		
Hantaan#	<i>Bordetella bronchiseptica</i> #	Endoparasites (excluding protozoans considered to be natural, commensal flora)
LCM #	CARB#	Ectoparasites
MAD 1#	<i>Citrobacter</i> spp.#	
PVM	<i>C. piliforme</i> (Tyzzers)	
Parvo (H-1, KRV, RPV, RVM)	<i>Corynebacterium kutscheri</i> #	
RCV	<i>Mycoplasma pulmonis</i>	
REO3#	<i>Pseudomonas aeruginosa</i> #	
<b>Pathogens Monitored and Excluded, cont.</b>		
Sendai	<i>Salmonella</i> spp.#	
TMEV (GDVII)	<i>Streptobacillus moniliformis</i> #	
	<i>S. pneumoniae</i> #	
	<i>Streptococcus</i> spp.#	
<b>Pathogens Monitored</b>		
	<i>Helicobacter</i> spp.#	
	<i>Klebsiella</i> spp.#	
	<i>Pasteurella pneumotropica</i> #	

# These tests are performed on breeding colonies only.

Conventional Facilities for Hamsters		
VIRUSES	BACTERIA/FUNGUS	PARASITES
<b>Pathogens Monitored and Excluded</b>		
LCM	<i>C. piliforme</i>	Endoparasites (except <i>Giardia</i> )
PVM	<i>Lawsonia</i> spp.	Ectoparasites (except <i>Demodex</i> )
REO3#	<i>Salmonella</i> spp.	
Sendai	<i>Strep. pneumoniae</i>	
SV5#		
<b>Pathogens Monitored</b>		
	<i>Campylobacter</i> spp.	
	<i>Pasteurella</i> spp.	

# These tests are performed on breeding colonies only.

Conventional Facilities for Guinea Pigs		
VIRUSES	BACTERIA/FUNGUS	PARASITES
<b>Pathogens Monitored and Excluded</b>		
GPCMV#	<i>Bordetella bronchiseptica</i> #	Endoparasites
LCM#	<i>C. piliforme</i> #	Ectoparasites
PVM	<i>Corynebacterium</i> #	<i>E. cuniculi</i> #
Sendai	<i>Streptobacillus</i> #	
SV5#	<i>Yersinia pseudotuberculosis</i> #	

Pathogens Monitored		
PI3		

# These tests are performed on breeding colonies only.

**4. Safety N/A**

**5. Contingencies N/A**

**6. References**

<http://www.research.cornell.edu/CARE/documents/SOPs/CARE602.pdf>

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Written by, date:	Effective date:	Review date:	Referee:	SOP:
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