

Building: Genetic Medicine

Location: Lower Basement, Suite 30

Date of Issue: 6/5/2024

Date Location First Occupied: 8/1/10

Housing Type: IVC

Report#: 2024-030843

Species: Mouse

Testing Laboratory: Charles River Diagnostic Laboratory

This report summarizes the results of tests performed on surrogate, cull and sentinel mice from all rooms in the MMRRC-UNC barrier-maintained production facility. Note data are reported as positive tests/total tests performed. Current positive results are bolded. Please contact the MMRRC-UNC at mmrc_health@med.unc.edu with questions about this report or animal health issues.

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Latest Result is the date animals are removed from the colony to begin the health testing process. Compilation of all results for web posting may take several weeks.

Organism	Sample Tested	Test Method	Latest Result 5/28/24	Cumulative 2024 Results	2023 Results	2022 Results	2003 -2020 Results ^{##‡}
VIRUSES							
Ectromelia	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
GDVII (Theiler's) virus	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Hantaan	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
K Virus	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Lactic dehydrogenase elevating virus (LDEV)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Lymphocytic choriomeningitis (LCMV)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Minute virus of mice (MVM)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Mouse adenovirus strain 1(MAD1)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Mouse adenovirus strain 2 (MAD2)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Mouse cytomegalovirus (mCMV)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Mouse hepatitis virus (MHV)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Mouse Parvovirus (MPV)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Mouse Parvovirus (MPV)	Spleen	PCR	-----	-----	-----	-----	0/743
Mouse Thymic virus (MTV)	Serum	IFA	0/10	0/34	0/91	0/92	0/2476
Murine Norovirus (MNV)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Pneumonia virus of mice (PVM)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Polyoma virus	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Reovirus 3 (REO3)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Rotavirus (EDIM)	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Sendai virus	Serum	MFI	0/10	0/34	0/91	0/92	0/2476

[#]From 2003-January 2007, Charles River was the testing Laboratory. February 2007- October 2011, RADIL was the testing Laboratory.

^{*}The MMRRC moved to a brand new animal facility in the Genetic Medicine Building from BerryHill Hall 8/1/10. Prior to 2010, fewer animals were sent for testing due to less rigorous standards in the previous facility.

[‡] November 2011, MMRRC-UNC switched all testing to Charles River Diagnostic Laboratory.

2024 MMRRC-UNC Production Facility Health Report

Organism	Sample Tested	Test Method	Latest Result 5/28/24	Cumulative 2024 Results	2021 Results	2022 Results	2003-2020 Results ^{***}
BACTERIA & MYCOPLASMA							
<i>Bordetella bronchiseptica</i>	Nasopharynx	Culture	0/10	0/34	0/91	0/92	0/2118
<i>CAR bacillus</i>	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
<i>Clostridium piliforme</i>	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
<i>Citrobacter rodentium</i>	Cecum	Culture	0/10	0/34	0/91	0/92	0/2476
<i>Corynebacterium bovis</i>	Oral swab	PCR	---	---	---	---	0/5
<i>Corynebacterium kutscheri</i>	Trachea	Culture	0/10	0/34	0/91	0/92	0/2476
<i>Helicobacter bilis</i>	Feces	PCR	0/10	0/34	0/91	0/92	0/2476
<i>Helicobacter ganmani</i> ^e	Feces	PCR	0/10	0/34	0/91	0/92	0/1837
<i>Helicobacter hepaticus</i>	Feces	PCR	0/10	0/34	0/91	0/92	0/2476
<i>Helicobacter rodentium</i> ^e	Feces	PCR	0/10	0/34	0/91	0/92	0/2102
<i>Helicobacter trogontum</i> ^e	Feces	PCR	0/10	0/34	0/91	0/92	0/2102
<i>Helicobacter typhlonius</i> ^e	Feces	PCR	0/10	0/34	0/91	0/92	0/2102
<i>Helicobacter sp.</i>	Feces	PCR	0/10	0/34	0/91	0/92	0/2476
<i>Klebsiella oxytoca</i>	Cecum	Culture	0/10	0/34	0/91	0/92	0/2059
<i>Klebsiella pneumoniae</i>	Cecum	Culture	0/10	0/34	0/91	0/92	0/2059
<i>Mycoplasma pulmonis</i>	Serum	PCR	0/10	0/34	0/91	0/92	0/2476
<i>Pasturella multocida</i>	Nasopharynx	Culture	0/10	0/34	0/91	0/92	0/2148
<i>Pasturella pneumotropica</i>	Trachea	Culture	0/10	0/34	0/91	0/92	0/2476
<i>Pneumocystis carinii</i> **	Lung	PCR	---	---	---	---	0/5
<i>Pseudomonas aeruginosa</i>	Cecum	Culture	0/10	0/34	0/91	0/92	0/2319
<i>Proteus mirabilis</i>	Cecum	Culture	0/10	0/34	0/91	0/92	0/2030
<i>Salmonella sp</i>	Cecum	Culture	0/10	0/34	0/91	0/92	0/2476
<i>Staphylococcus aureus</i>	Nasopharynx	Culture	0/10	0/34	0/91	0/92	0/2148
<i>Staphylococcus aureus</i>	Oral swab	PCR	---	---	---	---	0/2
<i>Staphylococcus xylosus</i>	Oral swab	PCR	---	---	---	---	0/2
<i>Streptobacillus moniliformis</i>	Oral swab	PCR	0/10	0/34	0/91	0/92	0/2030
<i>Streptococcus pneumoniae</i>	Trachea	Culture	0/10	0/34	0/91	0/92	0/2336
<i>Streptococcus sp. beta hemolytic</i>	Nasopharynx	Culture	0/10	0/34	0/91	0/92	0/2148
PARASITES & PROTOZOA As of June 2022, IVC racks are tested 3xs/year by EAD (Exhaust Air Duct) Sampling & PCR analysis for internal and external parasites by our institutional vet services. See additional report titled "MMRRC-UNC parasite PCR"							
Encephalitozoon cuniculi	Serum	MFI	0/10	0/34	0/91	0/92	0/2476
Ectoparasites ^{b,#}	Fur/Pelt	Exam	0/10	0/34	0/91	0/92	0/2476
Endoparasites ^c	Intestine	Exam	0/10	0/34	0/91	0/92	0/2476
Helminths ^d	Cecum*	Exam	0/10	0/34	0/91	0/92	0/2476
Demodex sp.	Fur Swab	PCR	-----	-----	-----	-----	0/4

^bFleas, fur mites, mesostigmaid mice, lice

^c*Chilomastix sp.*, *Entamoeba sp.*, *Giardia sp.*, *Hexamastix sp.*, *Monocercomonoides sp.*, *Retortamoebas sp.*, *Spironucleus sp.*, *Trichomonads* and other large intestinal flagellates

^dPinworms and tapeworms (*Aspicularis tetraptera*, *Syphacia muris* and *Syphacia obvelata*).

^eRADIL identifies these species and Charles River started identifying them in 12/2012.

* A perianal tape test is performed in addition to an examination of cecal contents to detect for pinworms.

** Test only done for contact sentinels with immunocompromised strains

‡ November 2011, MMRRC-UNC switched all testing to Charles River Diagnostic Laboratory.

#8/1/2017 ectoparasite testing also included skin scraping for *Demodex muscili*