

Health monitoring report

In accordance with FELASA recommendations¹.

Species: *Mus musculus*

Strain: -

Unit: Standard SPF Facility

Room: K45

Date of report issue: 08/12-2023

Next testing: May 2024

Target organism	Test frequency	Date, latest results	Latest results	Historical results	Test method
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Viruses

Ectromelia virus (Mousepox)	6 months	08/12-2023	0/3	0/25	PCR (filter)
Lymphocytic Choriomeningitis Virus LCMV)	6 months	08/12-2023	0/3	0/25	PCR (filter)
Mouse Adenovirus 1 (MAdV-1)	6 months	08/12-2023	0/3	0/25	PCR (filter)
Mouse Adenovirus 2 (MAdV-2)	6 months	08/12-2023	0/3	0/25	PCR (filter)
Mouse Hepatitis Virus (MHV)	6 months	08/12-2023	0/3	0/28	PCR (filter)
Mouse Norovirus (MNV)	6 months	08/12-2023	0/3	0/28	PCR (filter)
Mouse Parvovirus (MPV)	6 months	08/12-2023	0/3	0/28	PCR (filter)
Minute Virus of Mice (MVM)	6 months	08/12-2023	0/3	0/28	PCR (filter)
Mouse Rotavirus (Epizootic Diarrhea of Infant Mice, EDIM)	6 months	08/12-2023	0/3	0/28	PCR (filter)
Pneumonia Virus of Mice (PVM)	6 months	08/12-2023	0/3	0/25	PCR (filter)
Reovirus type 3 (REO3)	6 months	08/12-2023	0/3	0/25	PCR (filter)
Sendai virus	6 months	08/12-2023	0/3	0/25	PCR (filter)
Theiler's Mouse Encephalitis Virus (TMEV)	6 months	08/12-2023	0/3	0/28	PCR (filter)

Bacteria and mycoplasma

Bordetella bronchiseptica	6 months	08/12-2023	0/3	0/21	PCR (filter)
Citrobacter rodentium	6 months	08/12-2023	0/3	0/18	PCR (filter)
Clostridium piliforme	6 months	08/12-2023	0/3	0/25	PCR (filter)
Corynebacterium kutscheri	6 months	08/12-2023	0/3	0/18	PCR (filter)
Filobacterium rodentium (CAR bacillus)	6 months	08/12-2023	0/3	0/18	PCR (filter)
Helicobacter spp.	6 months	08/12-2023	0/3	0/21	PCR (filter)
Helicobacter bilis	6 months	08/12-2023	0/3	0/21	PCR (filter)
Helicobacter ganmani	6 months	08/12-2023	0/3	0/21	PCR (filter)
Helicobacter hepaticus	6 months	08/12-2023	0/3	0/21	PCR (filter)
Helicobacter mastomyrinus	6 months	08/12-2023	0/3	0/21	PCR (filter)
Helicobacter rodentium	6 months	08/12-2023	0/3	0/21	PCR (filter)
Helicobacter typhlonius	6 months	08/12-2023	0/3	0/21	PCR (filter)
Mycoplasma pulmonis	6 months	08/12-2023	0/3	0/25	PCR (filter)
Rodentibacter heylii	6 months	08/12-2023	0/3	0/21	PCR (filter)
Rodentibacter pneumotropicus	6 months	08/12-2023	0/3	0/21	PCR (filter)
Pseudomonas aeruginosa	6 months	08/12-2023	0/3	0/21	PCR (filter)
Salmonella spp.	6 months	08/12-2023	0/3	0/18	PCR (filter)
Streptobacillus moniliformis	6 months	08/12-2023	0/3	0/18	PCR (filter)
Streptococcus pneumoniae	6 months	08/12-2023	0/3	0/21	PCR (filter)
Streptococcus sp. β hemolytic (not group D)	6 months	08/12-2023	0/3	0/21	PCR (filter)

Endoparasites

Pinworm - <i>Aspiculuris tetraptera</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)
Pinworm - <i>Syphacia muris</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)
Pinworm - <i>Syphacia obvelata</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)
Protozoa - <i>Chilomastix</i> spp.	6 months	08/12-2023	0/3	0/21	PCR (filter)
Protozoa - <i>Cryptosporidium</i> spp.	6 months	08/12-2023	0/3	0/21	PCR (filter)
Protozoa - <i>Eimeria</i> spp.	6 months	08/12-2023	0/3	0/21	PCR (filter)
Protozoa - <i>Giardia muris</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)
Protozoa - <i>Spirotrichomonas muris</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)
Protozoa - <i>Tritrichomonas muris</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)

Ectoparasites

Myocoptes	6 months	08/12-2023	0/3	0/21	PCR (filter)
Radfordia/Myobia	6 months	08/12-2023	0/3	0/21	PCR (filter)

Other

Pathology	-	-	-	-	Necropsy
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Opportunistic microorganisms

<i>Klebsiella oxytoca</i>	6 months	08/12-2023	0/3*	0/21	PCR (filter)
<i>Klebsiella pneumoniae</i>	6 months	08/12-2023	0/3	1/21	PCR (filter)
<i>Proteus</i> spp.	-	May 2020	-	0/3	PCR (filter)
<i>Proteus mirabilis</i>	6 months	08/12-2023	1/3	6/21	PCR (filter)
Protozoa - <i>Entamoeba muris</i>	6 months	08/12-2023	0/3	0/21	PCR (filter)
<i>Staphylococcus aureus</i>	6 months	08/12-2023	0/3	8/21	PCR (filter)

1: Mähler, M., Berard, M., Feinstein, R., Gallagher, A., Illgen-Wilcke, B., Pritchett-Corning, K., & Raspa, M. (2014). FELASA recommendations for the health monitoring of mouse, rat, hamster, guinea pig and rabbit colonies in breeding and experimental units. *Laboratory Animals*, 48(3), 178–192.

2: Buchheister, S. and Bleich, A. (2021). Health Monitoring of Laboratory Rodent Colonies – Talking about (R)evolution. *Animals (Basel)*, 11(5): 1410.

*** Based on a positive PCR test result from one of the air handling units, a subsequent cull, cleaning, and test protocol was initiated. Supplemental PCR and microbiology tests on feces samples from all affected IVC cages showed no positive results. This indicates that the positive PCR result from the air handling units most likely was due to DNA material from noninfectious/nonviable bacterial residues present in rodent chow, bedding or nesting material².**

Environmental microbiological detection is performed by PCR evaluation of swabs from the filters of the air handling units.

Testing laboratory: IDEXX BioAnalytics, Mörikestr. 28/3, D 71636 Ludwigsburg, Germany.

Approved by Veterinarian:

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