

Health Monitoring Report for Mice

Institution: Harvard Medical School-NRB, 77 Ave. Louis Pasteur, Boston, MA, 02115 USA

Date: 22-February-24

Microbiological Entity/Unit

Building: NRB
Room(s):
5,6,7,8,9,10,11,13,14,15,16,17,18,19,21,34,47,77
& 945

Barrier Facility

Entity/Unit type (mark the correct type) :

Conventional

☒ Barrier-IVC

Isolator

Other



Contact person (name, e-mail, phone)

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Testing Results:

				Most recent tests		Historical results	
				Tested subject		Collected over 18 months	
				(sentinel, colony animal, environmental, etc.)			
Testing Laboratory	Testing method			Date	No. positives/ No. tested	No. positives/ No. tested	Testing frequency
Viruses :							
Ectromelia virus ¹	CRL	MFIA	Sentinel	24-Apr-23	0/0	0/116	Annually
Hantaviruses				Not tested			
K virus	CRL	MFIA	Sentinel	24-Apr-23	0/0	0/116	Annually
Lactate dehydrogenase elevating virus				Not tested			
Lymphocytic choriomeningitis virus ¹	CRL	MFIA	Sentinel	24-Apr-23	0/0	0/116	Annually
Mouse adenovirus (type 1) ¹	CRL	MFIA	Sentinel	24-Apr-23	0/0	0/116	Annually
Mouse adenovirus (type 2) ¹	CRL	MFIA	Sentinel	24-Apr-23	0/0	0/116	Annually
Mouse cytomegalovirus				Not tested			
Mouse hepatitis virus ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
Mouse norovirus ¹				Present in Facility			
Mouse rotavirus ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
Mouse thymic virus				Not tested			
Parvovirus ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
- NS1	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
- MPV ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
- MVM ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
Polyoma virus	CRL	MFIA	Sentinel	24-Apr-23	0/0	0/116	Annually
Pneumonia virus of mice ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
Reovirus type 3 ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
Sendai virus ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
Theiler's murine encephalomyelitis virus ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly

Bacteria & fungi:

β -hemolytic <i>Streptococcus</i> spp. (not group D) ¹				Not tested			
<i>Bordetella bronchiseptica</i>				Not tested			
<i>Bordetella hinzii</i>				Not tested			
Cilia-associated respiratory bacillus				Not tested			
<i>Citrobacter rodentium</i> ¹				Not tested			
<i>Clostridium piliforme</i> ¹				Not tested			
<i>C. bovis</i>	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
<i>Corynebacterium kutscheri</i> ¹				Not tested			
<i>Helicobacter</i> spp. ¹				Not tested			
<i>Klebsiella oxytoca</i>				Not tested			

1: The 2014 FELASA recommendations include these agents.

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Testing Results (continued):

Testing Results (continued):				Most recent tests		Historical results	
				Tested subject		Collected over 18 months	
Testing Laboratory	Testing method	(sentinel, colony animal, environmental, etc.)	Date	No. positives/ No. tested		No. positives/ No. tested	Testing frequency
Bacteria & fungi (continued)							
				Not tested			
<i>Klebsiella pneumoniae</i>				Not tested			
<i>Mycoplasma pulmonis</i> ¹	CRL	MFIA	Sentinel	8-Feb-24	0/115	0/694	Quarterly
<i>Pasteurella pneumotropica</i> ¹				Not tested			
<i>Pseudomonas aeruginosa</i>				Not tested			
<i>Pneumocystis murina</i>				Not tested			
<i>Salmonella</i> spp. ¹				Not tested			
<i>Staphylococcus aureus</i>				Not tested			
<i>Streptobacillus moniliformis</i> ¹				Not tested			
<i>Streptococcus pneumoniae</i> ¹				Not tested			

Parasites¹:

Mites

<i>Myobia musculi</i>	CRL	Micro/PCR	Sentinel	8-Feb-24	0/115	0/694	Quarterly
<i>Myocoptes musculinus</i>	CRL	Micro/PCR	Sentinel	8-Feb-24	0/115	0/694	Quarterly
<i>Radfordia affinis</i>	CRL	Micro/PCR	Sentinel	8-Feb-24	0/115	0/694	Quarterly

Pinworms

<i>Aspiculuris tetraptera</i>	CRL	Micro/PCR	Sentinel	8-Feb-24	0/115	0/694	Quarterly
<i>Syphacia oblevata</i>	CRL	Micro/PCR	Sentinel	8-Feb-24	0/115	0/694	Quarterly

Protozoan

<i>Entamoeba muris</i>				Not tested			
<i>Giardia muris</i>				Not tested			
<i>Spironucleus muris</i>				Not tested			
<i>Tritrichomonas muris</i>				Not tested			

Parasite testing:

Microscopic evaluation of samples from individual sentinels is supplemented by PCR evaluation of samples from sentinels pooled by room. The number of samples corresponds to the number of sentinels examined by microscopic methods.

Pathology:

Additional comments:

Myobia musculi was identified on a single rack in room 77 by PCR surveillance in Q1 2022. The affected rack began an 8-week course of ivermectin feed on 3/8/22. Subsequent PCR testing of rack plenums in May, 2022, show additional racks affected by *Myobia*. All remaining racks in the room were placed on an 8-week course of ivermectin chow beginning the week of 06/08/22.

The treatment course was completed and all racks retested by PCR in September, 2022. Negative results were received and the room was released from isolation on 10/3/22.

Myobia musculi was identified on a single rack in room 009 by fur pluck and verified by PCR in November, 2022. All racks began an 8-week course of ivermectin feed on 11/16/22, except for a small subset of cages that were placed on topical Selamectin every 2-3 weeks. The treatment course was completed and all racks retested by PCR in February, 2022. Negative results were received and the room was released from isolation on 2/13/23.

1: The 2014 FELASA recommendations include these agents.