

# Health Monitoring Report

## RIKEN BioResource Research Center

RIKEN BioResource Research Center adopts the sentinel mouse program, which is specialized for the micro isolator cage system. A sentinel mouse cage containing four mice is laid on a microisolator cage rack and small parts of dirty beddings from all cages of the rack are collected into the sentinel mouse cage every two weeks. One mouse from a sentinel cage is subjected to the examination at regular intervals.

Our items to be examined are classified into four classes shown in the table below. All sentinel mice are tested under the class A and B. Sentinel mice kept in the room for immuno-deficient mice are screened on the class C as well. The class D contains a weak pathogen (MNV) or the certain pathogens that are believed not to exist in the Japanese mouse colonies hence mice are submitted to class D examination by request at recipient's charge.

Top row of health report indicates the index code of the sentinel animals tested. First two letters mean the room number, and the last letter means the rack code.

For example;

If the index code is 3-1-A, the sentinel mouse tested is from the room "3-1" rack "A".

Class	Microorganisms
A	<i>C. piliforme</i> , Ectromelia virus, Hantaan virus, Lymphocytic choriomeningitis virus (LCMV), Mouse hepatitis virus (MHV), <i>M. pulmonis</i> , Sendai virus (HVJ)
B	<i>C. kutscheri</i> , <i>C. rodentium</i> , <i>F. rodentium</i> , <i>H. bilis</i> , <i>H. hepaticus</i> , <i>R. heylii</i> , <i>R. pneumotropicus</i> , <i>Salmonella</i> spp., Dermatophytes, Ectoparasites, Intestinal protozoa, Pinworms
C	<i>P. aeruginosa</i> , <i>S. aureus</i> , <i>P. murina</i>
D	Lactate dehydrogenase elevating virus (LDHEV), Mouse adenovirus (MAV type 1 & 2), Mouse cytomegalovirus (MCMV), Mouse minute virus (MMV), Mouse parvovirus (MPV), Mouse norovirus (MNV), Mouse polyoma virus (Poly), Mouse rotavirus (EDIM), Pneumonia virus of mice (PVM), Reovirus type 3 (Reo3), Theiler's mouse encephalomyelitis virus (TMEV/GDVII)

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# HEALTH REPORT

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Facility: RIKEN BRC Experimental Animal Division

Test date: January 10, 2023

Examination No: 22449

Class	Pathogens	Methods	Sentinel Animals: BALB/cA-nu/+ ♀										
			3-A-A	3-A-B	3-A-C	3-A-D	3-A-E	3-A-F	3-A-G	3-A-H	3-A-I	3-A-J	
A	Mouse hepatitis virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Sendai virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Clostridium piliforme</i>	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Hantaan virus	Serology											
	Ectromelia virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Lymphocytic choriomeningitis virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Mycoplasma pulmonis</i>	Serology Cultivation	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1	0/1 0/1
A/B	<i>Salmonella</i> spp.	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
B	<i>Citrobacter rodentium</i>	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Corynebacterium kutscheri</i>	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Pasteurella pneumotropica</i> *	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Dermatophytes	Cultivation											
	<i>Filobacterium rodentium</i>	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Ectoparasites	Microscopy	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Intestinal protozoa	Microscopy	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Pinworms	Microscopy	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Helicobacter bilis</i>	PCR	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Helicobacter hepaticus</i>	PCR	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
C	<i>Pseudomonas aeruginosa</i>	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
Gross lesion			0/1	0/1	0/1	0/1	0/1	0/1	0/1	**	0/1	0/1	0/1

\* *Rodentibacter heylili* and *R.pneumotropicus*

\*\* Swelling of liver

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# HEALTH REPORT

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Class	Pathogens	Methods	Sentinel Animals: BALB/cA-nu/+ ♀										
			3-A-K	3-A-L	3-B-A	3-B-B	3-B-C	3-B-D	3-B-E	3-B-F	3-B-G	3-B-H	
A	Mouse hepatitis virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Sendai virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Clostridium piliforme</i>	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Hantaan virus	Serology											
	Ectromelia virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Lymphocytic choriomeningitis virus	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Mycoplasma pulmonis</i>	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
		Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
A/B	<i>Salmonella</i> spp.	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
B	<i>Citrobacter rodentium</i>	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Corynebacterium kutscheri</i>	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Pasteurella pneumotropica</i> *	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Dermatophytes	Cultivation											
	<i>Filobacterium rodentium</i>	Serology	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Ectoparasites	Microscopy	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Intestinal protozoa	Microscopy	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	Pinworms	Microscopy	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Helicobacter bilis</i>	PCR	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
	<i>Helicobacter hepaticus</i>	PCR	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
C	<i>Pseudomonas aeruginosa</i>	Cultivation	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
Gross lesion			**	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1

\* *Rodentibacter heyltii* and *R.pneumotropicus*

\*\* Lung adenoma

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			3-B-I	3-B-J	3-B-K	3-B-L								
A	Mouse hepatitis virus	Serology	0/1	0/1	0/1	0/1								
	Sendai virus	Serology	0/1	0/1	0/1	0/1								
	<i>Clostridium piliforme</i>	Serology	0/1	0/1	0/1	0/1								
	Hantaan virus	Serology												
	Ectromelia virus	Serology	0/1	0/1	0/1	0/1								
	Lymphocytic choriomeningitis virus	Serology	0/1	0/1	0/1	0/1								
	<i>Mycoplasma pulmonis</i>	Serology	0/1	0/1	0/1	0/1								
		Cultivation	0/1	0/1	0/1	0/1								
A/B	<i>Salmonella</i> spp.	Cultivation	0/1	0/1	0/1	0/1								
B	<i>Citrobacter rodentium</i>	Cultivation	0/1	0/1	0/1	0/1								
	<i>Corynebacterium kutscheri</i>	Cultivation	0/1	0/1	0/1	0/1								
	<i>Pasteurella pneumotropica</i> *	Cultivation	0/1	0/1	0/1	0/1								
	Dermatophytes	Cultivation												
	<i>Filobacterium rodentium</i>	Serology	0/1	0/1	0/1	0/1								
	Ectoparasites	Microscopy	0/1	0/1	0/1	0/1								
	Intestinal protozoa	Microscopy	0/1	0/1	0/1	0/1								
	Pinworms	Microscopy	0/1	0/1	0/1	0/1								
	<i>Helicobacter bilis</i>	PCR	0/1	0/1	0/1	0/1								
	<i>Helicobacter hepaticus</i>	PCR	0/1	0/1	0/1	0/1								
C	<i>Pseudomonas aeruginosa</i>	Cultivation	0/1	0/1	0/1	0/1								
Gross lesion			0/1	0/1	0/1	0/1								

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