Health Monitoring Report

RIKEN BioResource Center

RIKEN BioResource 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 bimonthly for our examination.

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

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HEALTH REPORT

Facility: RIKEN BRC Experimental Animal Division Testdate: May 29, 2017(1) June 5, 2017(2) June 26, 2017(3) Examination No: 17109(1),17128(2),17219(3)

Class	Pathogen(s)	Method(s)	Sentinel Animal(s) : BALB/c-nu/+ ♀									
			3-5-A	4-A-B								
A	Mouse hepatitis virus	Serology	0/1(2)	0/1(1)								
	Sendai virus	Serology	0/1(2)	0/1(1)								
	Clostridium piliforme	Serology	0/1(2)	0/1(1)								
	Hantaan virus	Serology	-	0/1(1)								
	Ectromelia virus	Serology	0/1(2)	0/1(1)								
	Lymphocytic choriomeningitis virus	Serology	0/1(2)	0/1(1)								
	Mycoplasma pulmonis	Serology	0/1(2)	0/1(1)								
		Cultivation	0/1(2)	0/1(1)								
A/B	*Salmonella* spp.	Cultivation	0/1(2)	0/1(1)								
B	*Citrobacter rodentium*	Cultivation	0/1(2)	0/1(1)								
	Corynebacterium kutscheri	Cultivation	0/1(2)	0/1(1)								
	Pasteurella pneumotropica	Cultivation	0/1(2)	0/1(1)								
	Dermatophytes	Cultivation	-	0/1(1)								
	*Filobacterium rodentium**	Serology	0/1(2)	0/1(1)								
	Ectoparasites	Microscopy	0/1(2)	0/1(1)								
	Intestinal protozoa	Microscopy	0/1(2)	0/1(1)								
	Pinworms	Microscopy	0/1(2)	0/1(1)								
	Helicobacter bilis	PCR	0/1(2)	0/1(1)								
	Helicobacter hepaticus	PCR	0/1(2)	0/1(1)								
C	*Staphylococcus aureus*	Cultivation	0/1(2)	0/1(1)								
	Pseudomonas aeruginosa	Cultivation	0/1(2)	0/1(1)								
	Pneumocystis murina	PCR	0/1(3)	0/1(3)								
D	Lactate dehydrogenase elevating virus	RT-PCR	0/1(3)	0/1(3)								
	Mouse polyomavirus	PCR	0/1(3)	0/1(3)								
Gross lesion			0/1(2)	0/1(1)								

* Formerly known as "CAR bacillus"

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