# Health Monitoring Report

## RIKEN BioResource Research Center

RIKEN BioResource Research Center adopts the sentinel mouse program, which is specialized for the microisolator 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 immunodeficient 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 laboratory mouse colonies hence mice are annually submitted to class D examination.

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 | C. *piliforme,* Ectromelia virus, Hantaan virus, Lymphocytic choriomeningitis virus (LCMV), Mouse hepatitis virus (MHV), *M. pulmonis,* Sendai virus (HVJ) |
| B | C. *kutscheri, C. rodentium, F. rodentium, H. bills, H. hepaticus, R. heylii, R. pneumotropicus, Salmonella spp.,* Dermatophytes, Ectoparasites, Intestinal protozoa, Pinworms |
| C | *P. aeruginosa, S. aureus, P. murina* |
| 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) |

Keisuke Sato, Ph.D. DJCLAM
Special Fixed Term Contract Researcher, Veterinarian
Experimental Animal Division
RIKEN BioResource Research Center
3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074 JAPAN
FAX: +81-29-836-9010
E-Mail: animal.brc@riken.jp

Jun 2025

# HEALTH REPORT



Facility: RIKEN BRC Experimental Animal Division　　Test date: October 20, 2025　　Examination No: 25337

| Class | Pathogens | Methods | Sentinel Animals: BALB/cA-nu/+ ♀ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 4-C-A | 4-C-B | 4-C-C | 4-C-D | 4-C-E | 4-C-F | 4-C-G | 4-C-H | 4-C-I | 4-C-J | 4-C-K | 4-C-L |
| 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 | 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 | 0/1 |
| | *Clostridium piliforme* | Serology | 0/1 | 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 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 |
| | 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 | 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 | 0/1 |
| | *Mycoplasma pulmonis* | Serology | 0/1 | 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 | 0/1 |
| A/B | *Salmonella* spp. | 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 |
| B | *Citrobacter rodentium* | 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 |
| | *Corynebacterium kutscheri* | 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 |
| | *Rodentibacter* spp. *(Pasteurella pneumotropica)* | 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 |
| | Dermatophytes | 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 |
| | *Filobacterium rodentium* | Serology | 0/1 | 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 | 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 | 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 | 0/1 |
| | *Helicobacter bilis* | PCR | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 |
| | *Helicobacter hepaticus* | PCR | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 |
| C | *Pseudomonas aeruginosa* | 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 |
| Gross lesion | | | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | ** | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 | 0/1 |

** Splenic nodule

* : Tested by The Jackson Laboratory Japan, Inc.

Reported on November 5, 2025 at 18:00

**RIKEN BioResource Research Center**
Experimental Animal Division
3-1-1 Koyadai, Tsukuba, Ibaraki, 305-0074, JAPAN
Phone: +81-29-836-5264　FAX: +81-29-836-9010

佐藤佳祐

Keisuke Sato, DJCLAM, Ph.D.