

המרכז לשירות וטרינרי

The Veterinary Service Center

Sentinel Diagnostic Laboratory

**Health Monitoring Report
in Accordance with FELASA Recommendations**

Location: Life Sciences
Species: Mouse (sentinel)

Housing: Conventional Unit
Strain: ICR (F)

Date of issue-May 2018

	Test frequency	Latest test date	Latest results	Testing lab Radil-C.R,TAU	Test method	Historical results (≤38 months)
Viruses						
Mouse hepatitis virus (MHV)	6 months	5.2018	1/3	C.R RADS	MFIA	5/20
Mouse rotavirus (EDIM)	6 months	5.2018	0/3	"	MFIA	0/20
Parvoviruses						
Minute virus of mice (MVM)	6 months	5.2018	0/3	"	MFIA	0/20
Mouse parvovirus (MPV1, 2, 5)	6 months	5.2018	0/3	"	MFIA	0/20
NS-1	6 months	5.2018	0/3	"	MFIA	0/20
Sendai virus	Annually	5.2018	0/3	"	MFIA	0/17
Theiler's murine encephalomyelitis virus (TMEV)	6 months	5.2018	0/3	"	MFIA	1/20
Ectromelia virus	Annually	5.2018	0/3	"	MFIA	0/17
Lymphocytic choriomeningitis virus (LCM)	Annually	5.2018	0/3	"	MFIA	0/17
Mouse adenovirus type 1 (FL)	Annually	5.2018	0/3	"	MFIA	0/17
Mouse adenovirus type 2 (K87)	Annually	5.2018	0/3	"	MFIA	0/17
Mouse cytomegalovirus (MCMV)	Annually	5.2018	0/3	"	MFIA	0/17
Reovirus type 3 (REO-3)	Annually	5.2018	0/3	"	MFIA	0/17
Pneumonia virus of mice (PVM)	Annually	5.2018	0/3	"	MFIA	0/17
MCMV	Annually	5.2018	0/3	"	MFIA	0/6
Hantavirus (Mouse/Rat)	Annually	5.2018	0/3	"	MFIA	0/11
Murine Norovirus (MNV)	6 months	5.2018	NT	"	IFA	8/14

	Test frequency	Latest test date	Latest results	Testing lab Radil-C.R&TAU	Test method	Historical result(≤38Mnt)
Bacteria, mycoplasma and fungi						
Mycoplasma Pulmonis-Mouse	Annually	5.2018	0/3	C.R RADS	MFIA	0/17
Bordetella bronchoseptica (Nasopharynx)	6 months	5.2018	0/3	TAU	CULT	0/17
Citrobacter rodentium (feces)	6 months	5.2018	0/3	"	CULT	0/17
Clostridium piliforme (Tyzzer's disease)	Annually	5.2018	0/3	"	MFIA	0/11
Corynebacterium kutscheri (Nasopharynx, Lung and Intestine)	6 months	5.2018	0/3	"	CULT	0/17
Klebsiella pneumoniae (Nasopharynx)	6 months	5.2018	0/3	"	CULT	0/17
Corynebacterium bovis (skin)	6 months	5.2018	0/3	"	CULT	0/17
Pasteurellaceae (Nasopharynx)	6 months	5.2018	1/3	"	CULT	3/17
Pseudomonas aeruginosa-Nasopharynx	6 months	5.2018	0/3	"	CULT	0/17
Salmonella spp.(Intestine -feces)	6 months	5.2018	0/3	"	CULT	0/17
Staphylococcus aureus (Skin, Nasopharynx and Lung)	6 months	5.2018	0/3	"	CULT	0/17
Streptococci β-haemolytic (not group D) (Nasopharynx and Lung)	6 months	5.2018	0/3	"	CULT	0/17
Streptococcus pneumonia(naso)	6 months	5.2018	0/3	"	CULT	0/17
Helicobacter spp. (Intestine -feces)	6 months	5.2018	NT	"	PCR	1/14
Streptobacillus moniliformis (Nasopharynx)	6 months	5.2018	0/3	"	CULT	0/17
Dermatophytes (Skin)	6 months	5.2018	0/3	"	CULT	0/17
Parasites						
Ectoparasites: Fur mites	6 months	5.2018	0/3	"	MICR	0/17
Encephalitozoon cuniculi (sporozoan)	Annually	5.2018	NT	"	MFI	0/0
Endoparasites: Syphacia obvelata	6 months	5.2018	0/3	"	MICR	0/17
Opportunistic protozoa	6 months	5.2018	0/3	"	MICR	0/17
Nonpathogenic protozoa	6 months	5.2018	3/3	"	MICR	10/17
Pathological lesions observed	6 months	5.2018	0/3	"	MAC	0/17

Data are expressed as number positive/number tested

Abbreviations used in this report:

ELISA=enzyme linked immunosorbent assay, MICR=microscopy, MAC= macroscopic

IFA=immunofluorescence assay ,MFI= multiplex fluorescent immunoassay, CULT=culture,

PCR=polymerase chain reaction, NT=not tested

Tests were conducted in TAU & Charles River laboratories

Conclusions of the latest results

On serology: One mouse (56 LS rooms 8, 9) was expressed **MHV** antibodies.

On PCR: Not tested for *Helicobacter spp.*

On parasitology: Micro fauna

On Bacteriology: One mouse (58LS room 21) was found positive for **Pasteurella pneumotropica*-yellow lytic colonies

Remark:

Identification of *Pasteurellaceae*:

**Pasteurella pneumotropica* grows as gray colonies on blood agar whereas “Other *Pasteurellaceae*” refers to yellow lytic colonies. Both are gram-negative and API-20NE-positive (99%). Occasional confirmation by RT-PCR for the ITS region (IDEXX BioResearch) or 16S rRNA PCR and sequencing (Hy Laboratories and IDEXX BioResearch) indicates that the gray colonies are *Pasteurella pneumotropica* (99%, GeneBank accession number: M75083.1, NR_042887.1) and the yellow colonies are *Pasteurella spp* (100%, GeneBank accession number: HF912264, JQ346058). Note that the JQ346058 sequence, which is called *P. pneumotropica* in GenBank, is not well characterized and is not associated with any publications. It is an outlier compared to all the other well-characterized *P. pneumotropica* isolates in the GenBank and is 100% identical to a *Pasteurella spp* (HF912264), which is better characterized.

NOTE: Viridans group alpha *Streptococcus*, coagulase negative *Staphylococcus sp.*, *Enterococcus sp.*, *Lactobacillus sp.*, *Lactococcus sp.*, and *Escherichia coli* were isolated. These bacteria are common components of the micro flora.

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