



Sackler Faculty of Medicine
Tel Aviv University



המרכז לשירות וטרינרי

**The Veterinary Service Center
Sentinel Diagnostic Laboratory**

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

Location: **Medicine Faculty TAU** Housing: Conventional Unit (CM) Date of issue: 27/02/2019
Species: **Mouse - Sentinel** Mouse Strain: ICR

Health Report of 10 mice

	Test frequency	Latest test date	Latest results	Testing TAU, CR	Test method	Historical results (25 months)
Viruses						
Mouse hepatitis virus (MHV)	6 months	01/2019	0/10	CR RADS	IFA	9/37
Mouse rotavirus (EDIM-ROTA-A)	6 months	01/2019	0/10	CR RADS	MFI	0/37
Minute virus of mice (MVM)	6 months	01/2019	0/10	CR RADS	MFI	0/37
Mouse parvovirus (MPV-1, -2, -5)	6 months	01/2019	0/10	CR RADS	MFI	0/37
Pneumonia virus of mice (PVM)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Sendai virus (SEND)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Theiler's murine encephalomyelitis virus (TMEV-GDVII)	6 months	01/2019	0/10	CR RADS	MFI,IFA	0/37
Ectromelia virus (ECTRO)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Lymphocytic choriomeningitis virus (LCMV)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Mouse adenovirus type 1 (FL-MAV-1)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Mouse adenovirus type 2 (K87-MAV-2)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Mouse cytomegalovirus (MCMV)	Annually	01/2019	0/10	CR RADS	MFI	0/28
Reovirus type 3 (REO)	Annually	01/2019	0/10	CR RADS	MFI	0/28
NS-1	6 months	01/2019	0/10	CR RADS	MFI	0/37
Murine norovirus (MNV)	6 months	01/2019	5/10	CR RADS	MFI	14/37

	Test frequency	Latest test date	Latest results	Testing TAU,CR	Test method	Historical results (25 months)
Bacteria, mycoplasma and fungi						
Mycoplasma Pulmonis (MPUL)- Mouse	Annually	01/2019	0/10	CR RADS	MFI	1/28
Bordetella bronchiseptica (Nasopharynx &Lung)	6 months	01/2019	0/10	TAU	CULT	0/37
Citrobacter Rodentium (Intestine -feces)	6 months	01/2019	0/10	TAU	CULT	0/37
Clostridium piliforme (Tyzzer's disease)	Annually	01/2019	0/10	CR RADS	MFI	0/37
Corynebacterium kutscheri (Nasopharynx, Lung and Intestine)	6 months	01/2019	0/10	TAU	CULT	0/37
Klebsiella pneumoniae (Naso&Lung)	6 months	01/2019	0/10	TAU	CULT	0/37
Pasteurellaceae (Naso&Lung)	6 months	01/2019	2/10	TAU	CULT	20/37
Pasteurella pneumotropica						
Pseudomonas aeruginosa (Naso&Lung)	6 months	01/2019	0/10	TAU	CULT	0/37
Salmonella spp. (Intestine -feces)	6 months	01/2019	0/10	TAU	CULT	0/37
Staphylococcus aureus (Skin,Naso, Lung)	6 months	01/2019	0/10	TAU	CULT	1/37
Streptococci β-haemolytic (not group D)	6 months	01/2019	0/10	TAU	CULT	0/37
Streptococcus pneumoniae (Naso& Lung)	6 months	01/2019	0/10	TAU	CULT	0/37
Helicobacter spp	6 months	01/2019	NT*	TAU	PCR	9/28
Streptobacillus moniliformis (Naso)	6 months	01/2019	0/10	TAU	CULT	0/37
Dermatophytes (Skin)	6 months	01/2019	0/10	TAU	CULT	0/37
Corynebacterium bovis (Skin)	6 months	01/2019	0/10	TAU	CULT	0/37
Pneumocytis carinii (nude lung)	Annually	01/2019	NT	TAU	PCR	0/0
Parasites						
Ectoparasites: Fur mites	6 months	01/2019	0/10	TAU	MICR	0/0
Endoparasites: Pinworms	6 months	01/2019	3/10	TAU	MICR	4/37
Opportunistic protozoa	6 months	01/2019	0/10	TAU	MICR	0/37
Nonpathogenic protozoa:	6 months	01/2019	0/10	TAU	MICR	17/37
Pathological lesions observed	6 months	01/2019	0/10	TAU	MACRO	0/37

Data are expressed as number positive/number tested

Abbreviations used in this report:

ELISA=enzyme linked immunosorbent assay, MICR=microscopy, MACRO= macroscopic observation IFA= immunofluorescence assay, MFI=multiplex fluorescent immunoassay, CULT=culture, PATH=gross pathology, PCR=polymerase chain reaction, HIST=histopathology, NT=not tested, TAU=Tel Aviv University, CR=Charles River.

Tests were conducted at Charles River, USA & Sentinel Diagnostic Laboratory, Tel Aviv University

Health monitoring summary

Serology: 5 mice (11th, 10th, 8th, 7th and 5th floors) were positive for Murine novovirus (MNV).

Parasitology: 3 mice (7th, 5th and 4th floors) were positive for endoparasites-pinworms (*Syphacia obvelata*).

One mouse (out of 4 colony mice tested; 10th floor) was also positive for pinworms (*Syphacia obvelata*).

Bacteriology: 2 mice were positive for *Pasteurella pneumotropica* (yellow lytic colonies).

*We consider the bacteriology mice samples positive for *Helicobacter spp*.

Growth Pathology: No pathology lesions.

Remarks:

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.

Viridans group alpha *Streptococcus*, coagulase negative *Staphylococcus sp.*, *Enterococcus sp.*, *Lactobacillus sp.*, *Lactococcus sp.*, and *Escherichia coli* are all common components of the micro flora. *Trichomonads*, *Chilomastix* and *Entamoeba* are all common components of micro fauna.

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