

**The Veterinary Service Center
Sentinel Diagnostic Laboratory**

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

Location: **Medicine Faculty TAU** Housing: **Conventional Unit (CM)** Samples collection: 30/06/2019
Species: **Mouse - Sentinel** Mouse Strain: ICR Date of report: 11/07/2019

Health Report of 8 mice (FELASA ANNUAL)

	Test frequency	Latest test date	Latest results	Testing TAU, CR	Test method	Historical results (6 months)
Viruses						
Mouse hepatitis virus (MHV)	6 months	07/2019	0/8	CR RADS	IFA	0/18
Mouse rotavirus (EDIM-ROTA-A)	6 months	07/2019	0/8	CR RADS	MFI	0/18
Minute virus of mice (MVM)	6 months	07/2019	0/8	CR RADS	MFI	0/18
Mouse parvovirus (MPV-1, -2, -5)	6 months	07/2019	0/8	CR RADS	MFI	0/18
Pneumonia virus of mice (PVM)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Sendai virus (SEND)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Theiler's murine encephalomyelitis virus (TMEV-GDVII)	6 months	07/2019	0/8	CR RADS	MFI, IFA	0/18
Ectromelia virus (ECTRO)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Lymphocytic choriomeningitis virus (LCMV)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Mouse adenovirus type 1 (FL-MAV-1)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Mouse adenovirus type 2 (K87-MAV-2)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Mouse cytomegalovirus (MCMV)	Annual	07/2019	NT	CR RADS	MFI	0/18
Reovirus type 3 (REO)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Generic parvovirus (NS-1)	6 months	07/2019	0/8	CR RADS	MFI	0/18
Murine norovirus (MNV)	6 months	07/2019	NT	CR RADS	MFI	5/18



Sackler Faculty of Medicine
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The VETERINARY SERVICE CENTER

	Test frequency	Latest test date	Latest results	Testing TAU,CR	Test method	Historical results (6 months)
Bacteria, mycoplasma and fungi						
Mycoplasma Pulmonis (MPUL)- Mouse	Annual	07/2019	0/8	CR RADS	MFI	1/18
Bordetella bronchoseptica (Nasopharynx &Lung)	6 months	07/2019	0/8	TAU	CULT	0/18
Citrobacter Rodentium (Intestine-feces)	6 months	07/2019	0/8	TAU	CULT	0/18
Clostridium piliforme (Tyzzer's disease)	Annual	07/2019	0/8	CR RADS	MFI	0/18
Corynebacterium kutscheri (Nasopharynx, Lung and Intestine)	6 months	07/2019	0/8	TAU	CULT	0/18
Klebsiella pneumoniae (Naso&Lung)	6 months	07/2019	0/8	TAU	CULT	0/18
Pasteurellaceae (Nasopharynx&Lung)	6 months	07/2019	3/8	TAU	CULT	5/18
Pasteurella pneumotropica						
Pseudomonas aeruginosa (Naso&Lung)	6 months	07/2019	0/8	TAU	CULT	0/18
Salmonella spp. (Intestine-feces)	6 months	07/2019	0/8	TAU	CULT	0/18
Staphylococcus aureus (Skin, Naso, Lung)	6 months	07/2019	1/8	TAU	CULT	1/18
Streptococci β -haemolytic (not group D)	6 months	07/2019	0/8	TAU	CULT	0/18
Streptococcus pneumoniae (Naso&Lung)	6 months	07/2019	0/8	TAU	CULT	0/18
Helicobacter spp	6 months	07/2019	NT*	TAU	PCR	18/18
Streptobacillus moniliformis (Naso)	6 months	07/2019	0/8	TAU	CULT	0/18
Dermatophytes (Skin)	6 months	07/2019	0/8	TAU	CULT	0/18
Corynebacterium bovis (Skin)	6 months	07/2019	0/8	TAU	CULT	0/18
Pneumocytis carinii (nude lung)	Annual	07/2019	NT	TAU	PCR	0/0
Parasites						
Ectoparasites: Fur mites	6 months	07/2019	0/8	TAU	MICR	0/18
Endoparasites: Pinworms	6 months	07/2019	0/8	TAU	MICR	0/18
Opportunistic protozoa	6 months	07/2019	0/8	TAU	MICR	0/18
Nonpathogenic protozoa	6 months	07/2019	8/8	TAU	MICR	18/18
Pathological lesions observed	6 months	07/2019	0/8	TAU	MACRO	0/18

Data are denoted 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 performed at Charles River, USA & Sentinel Diagnostic Laboratory, Tel Aviv University

Health monitoring summary

Serology: The mice were negative for all tested viruses.

Bacteriology: 3 mice (5th, 10th and 11th floor) were positive for *Pasteurella pneumotropica* (yellow lytic colonies). One mouse (5th floor) was positive for *Staphylococcus aureus*.

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

Parasitology: Tested mice were negative for pinworms and fur mites.

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, called *P. pneumotropica* in GenBank, it is not well characterized and it is not associated with any publication. It is an outlier compared to all others 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. *Trichomonas*, *Chilomastix* and *Entamoeba* are all common components of micro fauna.

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