



Sackler Faculty of Medicine
Tel Aviv University



The VETERINARY SERVICE CENTER

**The Veterinary Service Center
Sentinel Diagnostic Laboratory**

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

Location: **SPF-Medicine Faculty TAU** Housing: **SPF Unit (SPF)** Date of report: 02/10/2019
Species: **Mouse - Sentinel** Mouse Strain: **ICR**
Collection of samples: 02/09/2019; 08/09/19; 15/09/19

Health Report of 30 mice (FELASA QUARTERLY)

	Test frequency	Latest test date	Latest results	Testing TAU, CR	Test method	Historical results (4 months)
Viruses						
Mouse hepatitis virus (MHV)	3 months	09/2019	0/30	CR RADS	IFA	0/60
Mouse rotavirus (EDIM-ROTA-A)	3 months	09/2019	0/30	CR RADS	MFI	0/60
Minute virus of mice (MVM)	3 months	09/2019	0/30	CR RADS	MFI	0/60
Mouse parvovirus (MPV-1, -2, -5)	3 months	09/2019	0/30	CR RADS	MFI	0/60
Pneumonia virus of mice (PVM)	Annually	09/2019	NT	CR RADS	MFI	0/30
Sendai virus (SEND)	Annually	09/2019	NT	CR RADS	MFI	0/30
Theiler's murine encephalomyelitis virus (TMEV-GDVII)	3 months	09/2019	0/30	CR RADS	MFI, IFA	0/60
Ectromelia virus (ECTRO)	Annually	09/2019	NT	CR RADS	MFI	0/30
Lymphocytic choriomeningitis virus (LCMV)	Annually	09/2019	NT	CR RADS	MFI	0/30
Mouse adenovirus type 1 (FL-MAV-1)	Annually	09/2019	NT	CR RADS	MFI	0/30
Mouse adenovirus type 2 (K87-MAV-2)	Annually	09/2019	NT	CR RADS	MFI	0/30
Mouse cytomegalovirus (MCMV)	Annually	09/2019	NT	CR RADS	MFI	0/30
Reovirus type 3 (REO)	Annually	09/2019	NT	CR RADS	MFI	0/30
Parvovirus (NS-1)	3 months	05/2019	0/30	CR RADS	MFI	0/60
Murine norovirus (MNV)	3 months	09/2019	8/30	CR RADS	MFI	18/60



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Bacteria, mycoplasma and fungi						
Mycoplasma Pulmonis (MPUL)- Mouse	Annually	09/2019	NT	CR RADS	MFI	0/30
Bordetella bronchiseptica (Nasopharynx & Lung)	3 months	09/2019	0/30	TAU	CULT	0/60
Citrobacter Rodentium (Intestine -feces)	3 months	09/2019	0/30	TAU	CULT	0/60
Clostridium piliforme (Tyzzer's disease CPIL)	Annually	09/2019	NT	CR RADS	MFI	0/30
Corynebacterium kutscheri (Nasopharynx, Lung and Intestine)	3 months	09/2019	0/30	TAU	CULT	0/60
Klebsiella pneumoniae (Naso&Lung)	3 months	09/2019	0/30	TAU	CULT	0/60
Pasteurellaceae (Naso&Lung)	3 months	09/2019	7/30	TAU	CULT	8/60
Pasteurella pneumotropica						
Pseudomonas aeruginosa (Naso&Lung)	3 months	09/2019	0/30	TAU	CULT	0/60
Salmonella spp. (Intestine -feces)	3 months	09/2019	0/30	TAU	CULT	0/60
Staphylococcus aureus (Skin,Naso, Lung)	3 months	09/2019	1/30	TAU	CULT	3/60
Streptococci β -haemolytic (not group D)	3 months	09/2019	0/30	TAU	CULT	0/60
Streptococcus pneumoniae (Naso& Lung)	3 months	09/2019	0/30	TAU	CULT	0/60
Helicobacter spp	3 months	09/2019	NT*	TAU	PCR	NT*
Streptobacillus moniliformis (Naso)	3 months	09/2019	0/30	TAU	CULT	0/60
Dermatophytes (Skin)	3 months	09/2019	0/30	TAU	CULT	0/60
Corynebacterium bovis (Skin)	3 months	09/2019	0/30	TAU	CULT	0/60
Pneumocystis carinii (nude lung)	Annually	09/2019	NT	TAU	PCR	0/0
Parasites						
Ectoparasites: Fur mites	3 months	09/2019	0/30	TAU	MICR	0/60
Endoparasites: Pinworms	3 months	09/2019	0/30	TAU	MICR	0/60
Opportunistic protozoa	3 months	09/2019	0/30	TAU	MICR	0/60
Nonpathogenic protozoa: Chilomastix sp; Entamoeba sp; Trichomonas	3 months	09/2019	30/30	TAU	MICR	60/60
Pathological lesions observed	3 months	05/2019	1/30	TAU	MACRO	1/60

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: 8 mice (3rd and 4th floors) were positive for Murine novovirus (MNV).

Bacteriology: 7 mice were positive for *Pasteurella pneumotropica* (yellow lytic colonies): 2nd floor (rooms 207, 209); 3rd floor (rooms 307, 309) and 4th floor (rooms 407, 409).

One mice was positive for *Staphylococcus aureus* (4th floor, room 407, carrier 5).

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

Parasitology: All tested mice were negative for endoparasites-pinworms and ectoparasites-mites.

Growth Pathology: One mouse (3th floor, room 307, carrier 2) showed cystic ovary.

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. *Trichomonas*, *Chilomastix* and *Entamoeba* are all common components of micro fauna.

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