TEL AVIV UNIVERSITY אוניברסיטת תל-אביב

SACKLER FACULTY OF MEDICINE הפקולטה לרפואה ע"ש סאקלר

Health Monitoring Report
In Accordance with FELASA Recommendations

Location: Medicine Faculty Housing: SPF Date of issue: January 2018
Species: Mouse Mouse Strain: ICR (F)

	Test frequency	Latest test date	Latest results	Testing TAU,CR	Test method	Historical results (≤35 Mnt)
Viruses						
Mouse hepatitis virus (MHV)	3 months	1/2018	0/25	CR RADS	IFA	0/205
Mouse rotavirus (EDIM)	3 months	1/2018	0/25	CR RADS	MFI	0/205
Minute virus of mice (MVM)	3 months	1/2018	0/25	CR RADS	MFI	0/205
Mouse parvovirus (MPV 1, 2, 5)	3 months	1/2018	0/25	CR RADS	MFI	0/205
Pneumonia virus of mice (PVM)	Annually	1/2018	0/25	CR RADS	MFI	0/117
Sendai virus	Annually	1/2018	0/25	CR RADS	MFI	0/117
Theiler's murine encephalomyelitis virus (TMEV)	3 months	1/2018	0/25	CR RADS	MFI,IFA	0/205
Ectromelia virus	Annually	1/2018	0/25	CR RADS	MFI	0/66
Lymphocytic choriomeningitis virus (LCM)	Annually	1/2018	0/25	CR RADS	MFI	0/66
Mouse adenovirus type 1 (FL)	Annually	1/2018	0/25	CR RADS	MFI	0/66
Mouse adenovirus type 2 (K87)	Annually	1/2018	0/25	CR RADS	MFI	0/66
Mouse cytomegalovirus (MCMV)	Annually	1/2018	0/25	CR RADS	MFI	0/66
Reovirus type 3 (REO-3)	Annually	1/2018	0/25	CR RADS	MFI	0/66
NS 1	3 months	1/2018	0/25	CR RADS	MFI	0/135
Murine norovirus (MNV)	3 months	1/2018	16/25	CR RADS	MFI	111/205

	Test frequency	Latest test date	Latest results	Testing TAU,CR	Test method	Historical result(≤35 Mnt)
Bacteria, mycoplasma and fungi						
Mycoplasma Pulmonis - Mouse	Annually	1/2018	0/25	CR RADS	MFI	0/117
Bordetella bronchoseptica (Nasopharynx and Lung)	3 months	1/2018	0/25	TAU	CULT	0/205
Citrobacter Rodentium (Intestine –feces)	3 months	1/2018	0/25	TAU	CULT	0/205
Clostridium piliforme (Tyzzer's disease)	Annually	1/2018	0/25	CR RADS	MFI	0/117
Corynebacterium kutscheri (Nasopharynx, Lung and Intestine)	3 months	1/2018	0/25	TAU	CULT	0/205
Klebsiella pneumoniae (Nasoand Lung)	3 months	1/2018	0/25	TAU	CULT	0/205
Pasteurella pneumotropica (Naso, Lung)	3 months	1/2018	18/25	TAU	CULT	83/205
Pseudomonas aeruginosa (Naso&Lung)	3 months	1/2018	0/25	TAU	CULT	0/205
Salmonella spp.(Intestine -feces)	3 months	1/2018	0/25	TAU	CULT	0/205
Staphylococcus aureu (Skin,Naso ,Lung)	3 months	1/2018	0/25	TAU	CULT	2/205
Streptococci β-haemolytic (not group D)	3 months	1/2018	0/25	TAU	CULT	0/205
Streptococcus pneumoniae (Naso, Lung)	3 months	1/2018	0/25	TAU	CULT	0/205
Helicobacter spp	3 months	1/2018	6/25	TAU	PCR	25/205
Streptobacillus moniliformis (Naso)	3 months	1/2018	0/25	TAU	CULT	0/205
Dermatophytes (Skin)	3 months	1/2018	0/25	TAU	CULT	0/205
Corynebacterium bovis (Skin)	3 months	1/2018	0/25	TAU	CULT	0/205
Pneumocytis carinii (nude lung)	Annually	1/2018	NT	TAU	PCR	0/2
Parasites						
Ectoparasites: Fur mites	3 months	1/2018	0/25	TAU	MICR	0/205
Endoparasites: Pinworms	3 months	1/2018	0/25	TAU	MICR	0/205
Opportonistic protozoa	3 months	1/2018	0/25	TAU	MICR	0/205
Nonpathogenic protozoa:						
Chilomastix sp	3 months	1/2018	17/25	TAU	MICR	79/205
Entamoeba sp	3 months	1/2018	15/25	TAU	MICR	72/205
Trichomonads	3 months	1/2018	10/25	TAU	MICR	57/205
Pathological lesions observed	3 months	1/2018	0/25	TAU	MACRO	0/205

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.

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

Tests were conducted at Charles River, USA & Tel Aviv University laboratories

Conclussions of the latest results

Serology: 16 mice were found positive for MNV- room 307 (1-5); 407 (1- 5); 405 (1,3) 309(2, 4): 305 (2, 3)
Parasitology: 25 mice were found positive for *Trichomonads, Chilomastix, Entamoeba muris* – micro fuana
Bacteriology: 18 mice were found positive for *Pasteurella pneumotropica* (yellow colonies) – room 209 (1-2); 208 (1); 307 (2, 5); 309 (1-2, 5): 305(1-2): 405(1-3):407(1-4)
PCR: 2 mice were found positive for *Helicobacter hepaticus*- room 407 (3); 405(3).
Four mice were found positive for *Helicobacter spp.* 305 (2), 405 (1), 307 (3, 4), 407(3)

Growth Pathology: No pathology lesions.

NOTE: *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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