

**The Veterinary Service Center  
Sentinel Diagnostic Laboratory**

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

Location: **Life Sciences TAU**    Housing: Conventional Unit    Collection samples: 07/07/2019  
Species: **Rat - Sentinel**    Strain: SD (F)    Date of report: 01/08/19

**Health Report of 1 rat (FELASA ANNUAL)**

	Test frequency	Latest test date	Latest results	Testing TAU, CR	Test method	Historical results (5 months)
<b>Viruses</b>						
Hantaan (HTNV, HANT, a zoonotic hantaan virus)	Annual	07/2019	0/1	CR RADS	MFI	0/2
H1 (Toolan's H1-a rat parvovirus)	6 months	07/2019	0/1	CR RADS	MFI	0/2
MAV1 (rodent adeno virus strain 1)	Annual	07/2019	0/1	CR RADS	MFI	0/2
MAV2 (rodent adeno virus strain 2)	Annual	07/2019	0/1	CR RADS	MFI	0/2
RPV (rat parvo virus)	6 months	07/2019	0/1	CR RADS	MFI	0/2
RMV (rat minut virus)	6 months	07/2019	0/1	CR RADS	MFI	0/2
KRV (Kilham's rat virus-parvovirus)	6 months	07/2019	0/1	CR RADS	MFI	0/2
PVM ( a rodent pneumovirus)	6 months	07/2019	0/1	CR RADS	MFI	0/2
RCV/SDAV (rat coronavirus)	6 months	07/2019	0/1	CR RADS	MFI	0/2
REO (a rodent reovirus)	Annual	07/2019	0/1	CR RADS	MFI	0/2
RTV (rat theilovirus)	6 months	07/2019	1/1	CR RADS	MFI	2/2
Sendai (SEND)	6 months	07/2019	0/1	CR RADS	MFI	0/2
Parvovirus (NS-1)	Annual	07/2019	0/1	CR RADS	MFI	0/2
PCAR ('RRV'-Pneumocitis carinii)	6 months	07/2019	0/1	CR RADS	IFA	1/2
MNV (murine novovirus)	6 months	07/2019	NT	CR RADS	IFA	0/1
RCMV (rat cytomegalovirus)	6 months	07/2019	0/1	CR RADS	IFA	0/2



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The VETERINARY SERVICE CENTER

	Test frequency	Latest test date	Latest results	Testing lab	Test method	Historical results (5 months)
<b>Bacteria, mycoplasma and fungi</b>						
CILIA- Assoc. Resp. Bacillus (CARB)	Annual	07/2019	0/1	CR RADS	MFI	0/2
Mycoplasma pulmonis-MPUL (Blood)	6 months	07/2019	0/1	CR RADS	MFI	0/2
Bordetella bronchoseptica (Naso&Lung)	6 months	07/2019	0/1	CR RADS	CULT	0/2
Citrobacter rodentium (Intestine – feces)	6 months	07/2019	0/1	CR RADS	CULT	0/2
Clostridium piliforme-CPIL (Blood)	6 months	07/2019	0/1	CR RADS	MFI	0/2
Corynebacterium kutscheri (Nasopharynx, Lung and Intestine )	6 months	07/2019	0/1	TAU	CULT	0/2
Klebsiella pneumoniae (Naso&Lung)	6 months	07/2019	0/1	TAU	CULT	0/2
Klebsiella oxytoca (Intestine – feces)	6 months	07/2019	0/1	TAU	CULT	0/2
Pasteurellaceae (Naso&Lung)	6 months	07/2019	1/1	TAU	CULT	2/2
Pseudomonas aeruginosa (feces)	6 months	07/2019	0/1	TAU	CULT	0/2
Salmonella spp.(Intestine -feces)	6 months	07/2019	0/1	TAU	CULT	0/2
Staphylococcus aureus (Skin, Lung)	6 months	07/2019	1/1	TAU	CULT	1/2
Streptococci β-haemolytic (Naso&Lung)	6 months	07/2019	0/1	TAU	CULT	0/2
Streptococcus pneumonia (Naso)	6 months	07/2019	0/2	TAU	CULT	0/2
Helicobacter spp. (Intestine -feces)	6 months	07/2019	NT*	TAU	PCR	2/2
Streptobacillus moniliformis	6 months	07/2019	0/1	TAU	CULT	0/2
Dermatophytes (Skin)	6 months	07/2019	0/1	TAU	CULT	0/2
Corynebacterium bovis (Skin)	6 months	07/2019	0/1	TAU	CULT	0/2
<b>Parasites</b>						
Ectoparasites: Fur mites	6 months	07/2019	0/1	TAU	MICR	0/2
Endoparasites: Pinworms	6 months	07/2019	0/2	TAU	MICR	1/2
Opportunistic Protozoa	6 months	07/2019	0/2	TAU	MICR	0/2
Non Pathogenic Protozoa	6 months	07/2019	1/1	TAU	MICR	2/2
Encephalitozoon cuniculi (sporozoan)	6 months	07/2019	NT	CR RADS	ELISA	0/0
<b>Pathological lesions observed</b>	6 months	07/2019	0/1	TAU	MAC	0/2

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, CR RADS=Charles River, TAU=Tel Aviv University.

**Tests were performed by Charles River Research Animal Diagnostic Services Laboratory (CR) & Sentinel Diagnostic Laboratory at Tel Aviv University (TAU)**

**Health monitoring summary**

**Serology:** The tested rat was positive for Rat Theilovirus (RTV).

**Bacteriology:** The tested rat was positive for *Pasteurella pneumotropica* (yellow lytic colonies) and positive for *Staphylococcus aureus*.

\*We consider the bacteriology rat sample positive for *Helicobacter spp.*

**Parasitology:** The sentinel rat was negative for pinworms and negative for Fur mites observed by microscope

**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* were isolated. These bacteria are common components of the micro flora. *Trichomonads*, *Chilomastix* and *Entamoeba* are all common components of micro fauna.

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