

המרכז לשירות וטרינרי The Veterinary Service Center
Sentinel Diagnostic Laboratory

Report date: 14.12.17

Necropsy date: 19.12.17

Health Report 11 CP – one rat (SD)

Researcher name: Prof. Shamgar (Oren)

Animal Facility of Psychology School

HISTORY:

One sentinel rat SD 11 CP

SEROLOGY : Tests were conducted by Charles River

MFI² Serology Summary Report:

Hantaan	NT
<i>Mycoplasma pulmonis</i>	Negative
CARB	NT
PCAR	NT
MAD1	NT
MAD2	NT
RPV	Negative
RMV	Negative
KRV	Negative
H-1	Negative
NS-1	Negative
PVM	Negative
SDAV	Negative
REO3	NT
RTV	TC
Sendai	NT
<i>Clostridium piliforme</i>	Negative
Rat IgG	N

TC = Non-specific reaction with tissue control
 NT= Not tested

BACTERIOLOGY: Tests were conducted by TAU Lab Sentinel

SAMPLE #	RESPIRATORY TRACT	DIGESTIVE TRACT
11 CP	<i>Pasteurella pneumotropica</i> Yellow lytic colonies	<i>Esherichia coli</i> (micro flora)

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.

PCR: 11 CP was found positive for *Helicobacter rodentium*.

PARASITOLOGY:

SAMPLE	ECTOPARASITE	ENDOPARASITE/WORM	PROTOZOA
10 CP	Negative	Negative	<i>Trichomonads</i>

NOTE: 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.

PATHOLOGY:

Gross Pathology: No lesions observed

Summary

Pasteurella pneumotropica and *Helicobacter rodentium* were found in bacteriology tests.

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