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

Location: **Felsenstein Medical Research Center** Housing: **Beilinson** Samples collection: **19/07/2021**

Species: **Mouse sentinel** Strain: **ICR females** Date of report: **01/08/2021**

Health report: **4 mice FELASA Quarterly**

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|  | Test frequency | Latest results positive/tested | Testing laboratoryTAU, CR | Test method | Historical results positive/tested |  |
| Viruses |  | Jul 2021 |  |  | Jul 2020  | Jan 2021 |
| Mouse hepatitis virus (MHV) | 6 months | 0/4 | CR | IFA | 0/4  | 0/4 |
| Mouse rotavirus (EDIM-ROTA-A) | 6 months | 0/4 | CR | MFIA | 0/4  | 0/4 |
| Minute virus of mice (MVM)  | 6 months | 0/4 | CR | MFIA | 0/4  | 0/4 |
| Mouse parvovirus (MPV-1,-2,-5) | 6 months | 0/4 | CR | MFIA | 0/4  | 0/4 |
| Pneumonia virus of mice (PVM)  | Annually | NT | CR | MFIA | NT  | 0/4 |
| Sendai virus (SEND) | Annually | NT | CR | MFIA | NT  | 0/4 |
| Theiler’s murine encephalomyelitis virus (TMEV-GDVII) | 6 months | 0/4 | CR | MFI,IFA | 0/4  | 0/4 |
| Ectromelia virus (ECTRO) | Annually | NT | CR | MFIA | NT  | 0/4 |
| Lymphocytic choriomeningitis virus (LCMV)  | Annually | NT | CR | MFIA | NT  | 0/4 |
| Mouse adenovirus type 1,2 (FL-MAV-1, K87-MAV-2) | Annually | NT | CR | MFIA | NT  | 0/4 |
| Mouse cytomegalovirus (MCMV) | Annually | NT | CR | MFIA | NT  | NT |
| Reovirus type 3 (REO) | Annually | NT | CR | MFIA | NT  | 0/4 |
| Generic parvovirus (NS-1) | 6 months | 0/4 | CR | MFIA | 0/4  | 0/4 |
| Murine norovirus (MNV)  | 6 months | NT\* | CR | MFIA | NT  | 0/4 |
| Bacteria, mycoplasma and fungi |  | Jul 2021 |  |  | Jul 2020  | Jan 2021 |
| Mycoplasma pulmonis (MPUL)-Mouse | Annually | NT | CR | MFIA | NT  | 0/4 |
| Bordetella bronchiseptica (Nasopharynx, lung) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Citrobacter rodentium (Intestine, feces)  | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Clostridium piliforme (CPIL, Tyzzer’s disease) | Annually | NT | CR | MFIA | 0/4  | 0/4 |
| Corynebacterium kutcheri (Nasopharynx, lung, intestine) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Klebsiella pneumoniae (Naso, lung) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Klebsiella oxytoca (Intestine, feces) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Pasteurellaceae, Pasteurella pneumotropica (Naso, lung) | 6 months | 2/4 | TAU | CULT | 1/4  | 0/4 |
| Pseudomonas aeruginosa (Naso, lung) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Salmonella spp. (Intestine, feces)  | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Staphylococcus aureus (Skin, naso, lung) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Streptococci -haemolytic (not group D) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Streptococcus pneumoniae (Naso, lung) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Helicobacter spp.  | 6 months | NT\*\* | TAU | PCR | 0/4  | NT |
| Streptobacillus moniliformis (Naso) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Dermatophytes (Skin)  | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Corynebacterium bovis (Skin) | 6 months | 0/4 | TAU | CULT | 0/4  | 0/4 |
| Pneumocystis carinii (Nude lung)  | Annually | NT | CR | PCR | NT  | NT |
|  |  |  |  |  |  |  |
|  | Test frequency | Latest results positive/tested | Testing laboratoryTAU, CR | Test method | Historical results positive/tested |  |
| Parasites |  | Jul 2021 |  |  | Jul 2020  | Jan 2021 |
| Ectoparasites: Fur mites  | 6 months | 0/4 | TAU | MICR | 0/4  | 0/4 |
| Endoparasites: Pinworms | 6 months | 0/4 | TAU | MICR | 0/4  | 0/4 |
| Opportunistic protozoa  | 6 months | 0/4 | TAU | MICR | 0/4  | 0/4 |
| Nonpathogenic protozoa:Chilomastix, Entamoeba, Trichomonas   | 6 months | Present | TAU | MICR | Present  | Present |
| Pathological lesions | 6 months | 0/4 | TAU | MACRO | 0/1  | 0/4 |

Data are expressed as number positive/number tested

Abbreviations used in this report: ELISA=enzyme linked immunosorbent assay; MICR=microscopy; MACRO=macroscopic; IFA=immunofluorescence assay; MFIA=multiplex fluorescent immunoassay; CULT=culture; PATH=gross pathology; PCR=polymerase chain reaction; HIST=histopathology; NT=not tested; TAU=Tel Aviv University lab; CR=Charles River lab; IN=result interpreted as non-specific because not confirmed by alternative serologic assay or diagnostic methodology for other serologic assays

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| Summary |
| Serology: Sentinel mice samples were negative for all tested viruses.\*We consider serology mice test positive for Murine norovirus (MNV). |
| Bacteriology: two mice samples (FEL-2, FEL-3) were positive for *Pasteurella pneumotropica*.\*\*We consider mice samples positive for Helicobacter spp. |
| Parasitology: sentinel mice samples were negative for fur mites (ectoparasites) and pinworms (endoparasites).  |
| Pathology: no gross signs. |
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**Notes:** *Viridans* group *-Streptococcus*, coagulase negative *Staphylococcus sp*., *Enterococcus sp*., *Lactobacillus spp*., *Lactococcus sp*. and *Escherichia coli* are all common components of the microbiota. *Trichomonas*, *Chilomastix* and *Entamoeba* are all common intestinal protozoa.

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, IDEXX BioResearch) indicates that gray colonies are *Pasteurella pneumotropica* (99%, GeneBank accession number: M75083.1, NR\_042887.1) and yellow colonies are *Pasteurella spp* (100%, GeneBank accession number: HF912264, JQ346058). Note that the JQ346058 sequence, called *P. pneumotropica*, is poorly characterized. It shows 100% identical to a *Pasteurella spp* (HF912264) (Dafni et al., 2019 (J Am Assoc Lab Anim Sci.;58(2):201-207).

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