Health Monitoring Report

Based on FELASA recommendations

<table>
<thead>
<tr>
<th>Species</th>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse</td>
<td>GR-Gd-Anex 1-1</td>
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</tr>
<tr>
<td>Mouse</td>
<td>GR-Gd-Anex 1-2</td>
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<tr>
<td>Mouse</td>
<td>GR-Gd-Anex 2-1</td>
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<tr>
<td>Rat</td>
<td>GR-Gd-Anex 2-2</td>
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</tbody>
</table>

Submission date mice: 06.03.2023
Submission date rats: 06.03.2023
Report Date mice: 30.03.2023
Report Date rats: 30.03.2023

Detailed information regarding the following health data summary is available by contacting Mr. Musa Mujahed M.Sc. at:
Phone (972-2)6757437   musam@savion.huji.ac.il

Other micro organisms may be detected on routine culture, but not reported according to FELASA recommendations. The status of these organisms is available on request.

General comment of Pasteurella pneumotropica identification:
The identification of this bacteria is done in two laboratories, at HF – LABORATORIES in Israel is identified by PCR as Pasteurella pneumotropica, while at IDEXX LABORATORIES in USA is identified as Pasteurella spp.
General description:

All rodents maintained in one of the SPF units are housed in filter top cages or IVC. Rodents are introduced into the SPF units only from known commercial vendors. Rodents from non-commercial vendors are going through health monitoring screening in quarantine prior to being introduced into the SPF unit. Personnel and researchers wear dedicated clothing on entering the animal facility: lab coat, shoe covers and gloves. Cages are changed inside type II biological hoods. Equipment and bedding are sterilized by autoclave before introduced into the SPF unit. Diet is irradiated. Drinking water is filtered and acidified to pH 2.8 - 3.2.

Health monitoring program is based on FELASA recommendations. Each rodent room in the facility is assigned with sentinel mice (ICR) or rats (SD). Sentinels in each room are exposed to bedding from different cages from the room at each cage change. Each Sentinels cage samples 100-120 cages. Sentinels are tested on a monthly and quarterly basis for subclinical infections of pathogens, as follows:

Parasitology (endoparasites and ectoparasites):
Performed twice quarterly.
In addition, anal-Tape tests are performed for each animal cage before transfer between SPF units.
In addition, PCR is performed annually.

Bacteriology (respiratory and digestive tract):
Respiratory tract culture performed quarterly.
Intestinal tract culture performed biannually.

Serology:
There are several panels being performed throughout the year:

- **Mice**
  - Quarterly - basic panel: MHV, EDIM, MPV, MVM, GDVII
  - Annually - comprehensive panel: MHV, EDIM, MPV, MVM, GDVII, Myc. pulmonis, PVM, Sendai, LCMV, Polyoma, Reo-3, MAD 1, MAD 2, CAR Bacillus, Tyzzer’s agent, MCMV, Ectromelia, MNV, MKPV.

- **Rats**
  - Quarterly - clinical panel: PVM, Myc. pulmonis, RPV, RMV, SDAV/RCV, KRV, H-1, RTV, Tyzzer’s agent.
  - Annually - comprehensive panel: All the above + Sendai, CAR Bacillus, Hanta, MAD 1, MAD 2, ECUN, Reo-3.

Gross Pathology:
Performed twice quarterly.

Histopathology:
Performed in case of abnormal gross pathological findings.
Health Monitoring Report
Based on FELASA recommendations

<table>
<thead>
<tr>
<th>Location</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GR-Gd-Anex 1-1</td>
<td>Mouse</td>
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<table>
<thead>
<tr>
<th>Submission Date</th>
<th>Report Date</th>
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<tbody>
<tr>
<td>06.03.2023</td>
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Detailed information regarding the following health data summary is available by contacting Mr. Musa Mujahed M.Sc. at:
Phone (972-2)6758465 musam@savion.huji.ac.il

Other microorganisms may be detected on routine culture, but not reported according to FELASA recommendations. The status of these organisms is available on request.
# Health Monitoring Report

**Latest Monthly Update:** 30.03.2023

**Location:**

**Species:** Mouse

<table>
<thead>
<tr>
<th>Viruses</th>
<th>Most Recent Test Date</th>
<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse hepatitis virus (MHV)</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>MFI</td>
</tr>
<tr>
<td>Mouse rotavirus (EDIM)</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>MFI</td>
</tr>
<tr>
<td>Mouse Parvo Virus</td>
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<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>MFI</td>
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<td>MFI</td>
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<tr>
<td>Theliers murine encephalomyelitis virus (GD-7)</td>
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<td>MFI</td>
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<tr>
<td>Mouse kidney parvovirus (MKPV)*</td>
<td>NT/NT</td>
<td>0/0</td>
<td>6 months</td>
<td>PCR</td>
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<tr>
<td>Mouse norovirus (MNV)</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
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<td>MFI</td>
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<tr>
<td>Pneumonia virus of mice</td>
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<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<td>Sendai virus (SEN)</td>
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<td>0/2</td>
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<td>MFI</td>
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<tr>
<td>Ectromelia Virus (ECTR)</td>
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<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<td>0/2</td>
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<td>MFI</td>
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<tr>
<td>Lyphocytic choriomeningitis virus (LCMV)</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
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<tr>
<td>Mouse cytomegalovirus</td>
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<td>0/2</td>
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<td>MFI</td>
</tr>
<tr>
<td>Mouse polyoma virus</td>
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<td>MFI</td>
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<tr>
<td>Mouse kidney parvovirus (MKPV)</td>
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**Bacteria, Mycoplasma and Fungi**

<table>
<thead>
<tr>
<th>Bacteria, Mycoplasma and Fungi</th>
<th>Most Recent Test Date</th>
<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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</thead>
<tbody>
<tr>
<td>Pasteurella pneumotropica</td>
<td>06.03.23</td>
<td>0/1</td>
<td>1/6</td>
<td>3 months</td>
<td>CULTURE</td>
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<tr>
<td>Streptococcus pneumoniae</td>
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<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
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<tr>
<td>Streptococcus B-haemolytic</td>
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<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
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<tr>
<td>Staphylococcus aureus</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
</tr>
<tr>
<td>Klebsiella pneumoniae</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
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<tr>
<td>Klebsiella oxytoxa</td>
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<td>0/6</td>
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<td>Pasturellaceae</td>
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<td>Proteus mirabilis</td>
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<td>0/6</td>
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<td>Citrobacter rodentium</td>
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<td>Salmonella spp.</td>
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<td>Streptobacillus moniliformis</td>
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<td>0/2</td>
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<td>CULTURE</td>
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<tr>
<td>Corynebacterium kutscheri</td>
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<td>0/1</td>
<td>0/2</td>
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<td>CULTURE</td>
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<tr>
<td>Corynebacterium bovis (HAC)*</td>
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<td>PCR</td>
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<td>Pneumocystis pneumoniae</td>
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<td>PCR</td>
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<td>Helicobacter spp.</td>
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<tr>
<td>Clostridium piliforme (Tyzer's disease)</td>
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<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<tr>
<td>CAR Bacillus</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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**Parasites**

<table>
<thead>
<tr>
<th>Parasites</th>
<th>Most Recent Test Date</th>
<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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</thead>
<tbody>
<tr>
<td>Ectoparasites</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
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<td>MCR</td>
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<tr>
<td>Intestinal Helminths</td>
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<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MCR</td>
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<tr>
<td>Enteric protozoa</td>
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<td>0/1</td>
<td>0/12</td>
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<td>MCR</td>
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</table>

**Nonpathogenic protozoa**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Entamoeba spp.</td>
<td>06.03.23</td>
<td>0/1</td>
<td>1/12</td>
</tr>
<tr>
<td>Trichomonas spp.</td>
<td>06.03.23</td>
<td>0/1</td>
<td>3/12</td>
</tr>
<tr>
<td>Chilomastix spp.</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
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**Pathological Lesions**

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<tr>
<th>Pathological Lesions</th>
<th>Most Recent Test Date</th>
<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Lesions</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MICR</td>
</tr>
</tbody>
</table>

**Report Notes:**

- a. Data is expressed as number positive/number tested
- b. Historical results include 18 months cumulative data
- * Only tested in rooms designated for holding/breeding immunodeficient strains

Last detection date of *Pasteurella pneumotropica* was on March 2022, and *Pasteurellaceae* was on December 2022.

Last detection date of *Entamoeba spp.* was on August 2022, and *Trichomonas spp.* was on December 2022.

As of Dec. 2015 we stopped testing sentinels for *Helicobacter* spp. We consider the entire unit as positive to *Helicobacter*.

Rony Kalmn DVM Ph.D. DipECLAM
Detailed information regarding the following health data summary is available by contacting Mr. Musa Mujahed M.Sc. at:
Phone (972-2)6757437 musam@savion.huji.ac.il

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Health Monitoring Report

Latest Monthly Update: 30.03.2023

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<td>3 months</td>
<td>MFI</td>
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<td>Mouse rotavirus (EDIM)</td>
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<td>0/6</td>
<td>3 months</td>
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<td>Mouse Parvo Virus</td>
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<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>MFI</td>
</tr>
<tr>
<td>Minute virus of mice (MV/M)</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>MFI</td>
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<td>Theliers’ murine encephalomyelitis virus (GD-7)</td>
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<td>3 months</td>
<td>MFI</td>
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<tr>
<td>Mouse kidney parvovirus (MKPV)*</td>
<td>NT/NT</td>
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<td>6 months</td>
<td>PCR</td>
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<tr>
<td>Mouse norovirus (MNV)</td>
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<td>Pneumonia virus of mice</td>
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<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<tr>
<td>Sendai virus (SEND)</td>
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<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<tr>
<td>Ectromelia Virus (ECTR)</td>
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<td>Reovirus type 3 (REO-3)</td>
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<td>0/2</td>
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<td>MFI</td>
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<td>Lymphocytic choriomeningitis virus (LCMV)</td>
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<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<tr>
<td>Mouse adenovirus type 1 (MAD-1)</td>
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<td>0/2</td>
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<td>MFI</td>
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<td>0/2</td>
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<td>MFI</td>
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<tr>
<td>Mouse cytomegalovirus</td>
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<td>0/1</td>
<td>0/2</td>
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<td>MFI</td>
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<tr>
<td>Mouse polyoma virus</td>
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<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
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<td>Mouse kidney parvovirus (MKPV)</td>
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<td><strong>Bacteria, Mycoplasma and Fungi</strong></td>
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<tr>
<td>Pasteurella pneumotropica</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
</tr>
<tr>
<td>Streptococcus pneumoniae</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
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<td>Streptococcus B haemolytic</td>
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<td>0/1</td>
<td>0/6</td>
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<tr>
<td>Staphylococcus aureus</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
</tr>
<tr>
<td>Klebsiella pneumoniae</td>
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<td>0/1</td>
<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
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<td>0/6</td>
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<td>0/6</td>
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<td>Proteus mirabilis</td>
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<td>0/6</td>
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<td>Salmonella spp.</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>CULTURE</td>
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<tr>
<td>Streptobacillus moniliformis</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
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<td>Corynebacterium kutscheri</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>CULTURE</td>
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<tr>
<td>Corynebacterium bovis (HAB)*</td>
<td>NT/NT</td>
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<td>6 months</td>
<td>PCR</td>
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<td>Pneumocystis murina*</td>
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<td>Clostridium piliforme (Tyzer's disease)</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
</tr>
<tr>
<td>*CAR Bacillus</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
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<tr>
<td><strong>Parasites</strong></td>
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<td>Ectoparasites</td>
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<td>0/12</td>
<td>6 weeks</td>
<td>MCR</td>
</tr>
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<td>6 weeks</td>
<td>MCR</td>
</tr>
<tr>
<td>Enteric protozoa</td>
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<td>0/12</td>
<td>6 weeks</td>
<td>MCR</td>
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<tr>
<td><strong>Nonpathogenic protozoa</strong></td>
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<td>Entamoeba spp.</td>
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<td>0/12</td>
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<td>MCR</td>
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<td>6 weeks</td>
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**Report Notes:**

a. Data is expressed as number positive/number tested
b. Historical results include 18 months cumulative data
* Only tested in rooms designated for holding/breeding immunodeficient strains

Last detection date of *Trichomonas* spp. and *Chilomastix* sp. was on August 2022.

As of Dec. 2015 we stopped testing sentinels for Helicobacter spp. We consider the entire unit as positive to Helicobacter.

Rony Kalman DVM Ph.D. DipECLAM

Authority for Biological and Biomedical Models - Jerusalem 91120 - Israel
Detailed information regarding the following health data summary is available by contacting Mr. Musa Mujahed M.Sc. at:
Phone (972-2)6757437    musam@savion.huji.ac.il

Other micro organisms may be detected on routine culture, but not reported according to FELASA recommendations.
The status of these organisms is available on request.
## Health Monitoring Report

### Latest Monthly Update: 30.03.2023

### Location:

### Species: Mouse

<table>
<thead>
<tr>
<th>Viruses</th>
<th>Most Recent Test Date</th>
<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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### Bacteria, Mycoplasma and Fungi

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<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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<td>0/6</td>
<td>3 months</td>
<td>CULTURE</td>
</tr>
<tr>
<td>Streptococcus B-haemolytic</td>
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<td>0/6</td>
<td>3 months</td>
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<td>Staphylococcus aureus</td>
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<td>0/6</td>
<td>3 months</td>
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</tr>
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<td>0/6</td>
<td>3 months</td>
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<tr>
<td>Klebsiella oxytoca</td>
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<td>0/6</td>
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<td>Proteus mirabilis</td>
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<tr>
<td>Corynebacterium kutscheri</td>
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<td>0/2</td>
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### Parasites

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<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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</thead>
<tbody>
<tr>
<td>Entoparasites</td>
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<td>0/12</td>
<td>6 weeks</td>
<td>MICR</td>
</tr>
<tr>
<td>Intestinal Helminths</td>
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<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MICR</td>
</tr>
<tr>
<td>Enteric protozoa</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MICR</td>
</tr>
<tr>
<td>Nonpathogenic protozoa</td>
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<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MICR</td>
</tr>
<tr>
<td>Entamoeba spp.</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MICR</td>
</tr>
<tr>
<td>Trichomonas spp.</td>
<td>06.03.23</td>
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<td>1/12</td>
<td>6 weeks</td>
<td>MICR</td>
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<tr>
<td>Chilomastix spp.</td>
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<td>0/1</td>
<td>0/12</td>
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### Pathological Lesions

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<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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<tbody>
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<td>0/12</td>
<td>6 weeks</td>
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</tbody>
</table>

### Report Notes:

- a. Data is expressed as number positive/number tested
- b. Historical results include 18 months cumulative data
- * Only tested in rooms designated for holding/breeding immunodeficient strains

Last detection date of Pasteurella pneumotropica was on December 2022.

As of Dec. 2015 we stoped testing sentinels for Helicobacter spp. We consider the entire unit as positive to Helicobacter.

Rony Kalman DVM Ph.D. DipECLAM
Health Monitoring Report
Based on FELASA recommendations

| Authority for Biological and Biomedical Models |
| Hebrew University |
| Jerusalem 91120 |
| Israel |
| Tel: (972-2)6758465 |
| Fax: (972-2)6424654 |

<table>
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<tr>
<th>Location</th>
<th>Species</th>
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<tr>
<td>GR-Gd-Anex 2-2</td>
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<td>06.03.2023</td>
<td>30.03.2023</td>
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## Health Monitoring Report
### Latest Monthly Update: 30.03.2023

### Location:

### Species: Rat

<table>
<thead>
<tr>
<th>Viruses</th>
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<th>Most Recent Results</th>
<th>Historical Results</th>
<th>Test Frequency</th>
<th>Test Method</th>
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<td>Rat Minute Virus (RMV)</td>
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<td>0/8</td>
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<td>MFI</td>
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<tr>
<td>Pneumonia virus of mice PVM)</td>
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<td>0/8</td>
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<td>Kilham rat virus (KRV)</td>
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<td>0/8</td>
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<td>Sendai virus (SEND)</td>
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<td>Streptococcus pneumoniae</td>
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<td>Streptococcus B-haemolytic</td>
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<td>0/1</td>
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<td>Pasteurella pneumotropica</td>
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<td>0/12</td>
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<td>Chlamidax spp.</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>MCR</td>
</tr>
<tr>
<td>Encephalitozoon cuniculi</td>
<td>18.12.22</td>
<td>0/1</td>
<td>0/2</td>
<td>12 months</td>
<td>MFI</td>
</tr>
<tr>
<td><strong>Pathological Lesions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Lesions</td>
<td>06.03.23</td>
<td>0/1</td>
<td>0/12</td>
<td>6 weeks</td>
<td>PATH</td>
</tr>
</tbody>
</table>

### Report Notes:

a. Data is expressed as number positive/number tested  

b. Historical results include 18 months cumulative data  

* Only tested in rooms designated for holding/breeding immunodeficient strains  

Last detection date of Pasteurellaceae was on August 2022.  
Last detection date of Trichomonas spp. was on December 2022.  

As of Dec. 2015 we stopped testing sentinels for Helicobacter spp. We consider the entire unit as positive to Helicobacter.