# Health monitoring report

In accordance with FELASA recommendations

**Location:** University of Oulu, Laboratory Animal Centre, mouse barrier  
**Date of issue:** 3rd May 2018  
**Sampling date:** 9th April 2018  
**Species sampled:** Mouse  
**Species present within the unit:** Mouse  
**Sampling:** Outbred CD1 sentinels

The barrier was emptied, disinfected and repopulated in December 2014.

<table>
<thead>
<tr>
<th>Viruses</th>
<th>Interval (months)</th>
<th>Date of last results</th>
<th>Last results</th>
<th>Laboratory</th>
<th>Test method</th>
<th>Historical results Dec. 2014 - Dec. 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minute virus of mice (MV)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Mouse parvovirus (MPV)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Mouse parvovirus (MLVs)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>PCR</td>
<td>0/48</td>
</tr>
<tr>
<td>Mouse parvovirus (faeces, pooled room samples)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/8</td>
<td>SD</td>
<td>PCR</td>
<td>0/42</td>
</tr>
<tr>
<td>Mouse hepatitis virus (MHV)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Pneumonia virus of mice (PVM)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Reovirus type 3</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Sendai virus</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Mouse rotavirus (EDIM)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Thelid's marine encephalomyelitis virus (TMEV)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Mouse norovirus (MNV)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/110</td>
</tr>
<tr>
<td>Mouse norovirus (faeces, pooled room samples)</td>
<td>4</td>
<td>9.4.2018</td>
<td>0/8</td>
<td>SD</td>
<td>RT-PCR</td>
<td>0/68</td>
</tr>
<tr>
<td>Entonemia virus</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Lymphocytic chooriomeningitis virus (LCMV)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Mouse adenovirus (Mad FL)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Mouse adenovirus (Mad K87)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Mouse cytomegalovirus (MCMV)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Hantaan virus</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Polyoma virus</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>K-virus</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Lactate dehydrogenase elevating virus (LDEV)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
<tr>
<td>Mouse thymic virus (MTV)</td>
<td>12</td>
<td>9.4.2018</td>
<td>0/9</td>
<td>SD</td>
<td>Bead</td>
<td>0/37</td>
</tr>
</tbody>
</table>

**Bacteria, mycoplasma and fungi**

| Cirtobacter rodentium | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |
| Clostridium piliforme | 4 | 9.4.2018 | 0/9 | SD | Bead | 0/110 |
| Corynebacterium kutscheri | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |
| Helicobacter spp. (faeces, pooled room samples) | 4 | 9.4.2018 | 0/9 | SD | PCR | 0/68 |
| Mycoplasma pulmonis | 4 | 9.4.2018 | 0/9 | SD | Bead | 0/110 |
| Pasteurellaceae | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |
| Pasteurella pneumotropica | 4 | 9.4.2018 | 0/9 | SD | PCR | 0/110 |
| Pseudomonas aeruginosa | 4 | 9.4.2018 | 0/9 | SD | Cult | 1/110 |<sup>1</sup> |
| Salmonella spp. | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |
| Staphylococcus aureus | 4 | 9.4.2018 | 0/9 | SD | Cult | 6/110 |<sup>2</sup> |
| Streptococci, β-haemolytic | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |
| Streptococcus pneumoniae | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |
| Streptobacillus moniliformis | 4 | 9.4.2018 | 0/9 | SD | Cult | 0/110 |

**Parasites**

| Ectoparasites | 4 | 9.4.2018 | 0/9 | LAC | Micr | 0/110 |
| Endoparasites | 4 | 9.4.2018 | 0/9 | LAC | Micr | 0/100 |
| Duodenum | 4 | 9.4.2018 | 0/9 | LAC | Micr | 0/100 |
| Cacum | 4 | 9.4.2018 | 0/9 | LAC | Micr | 0/100 |
| Faecal helminth eggs | 4 | 9.4.2018 | 0/9 | FFSA | Flot | 0/100 |
| Encephalitozoon cuniculi | 12 | 9.4.2018 | 0/9 | SD | Bead | 0/37 |

<sup>1</sup> Positive result 5.5.2015 from immunocompromised (nude) sentinels  
<sup>2</sup> Two positive results 5.5.2015, four positive results 13.12.2016

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University of Oulu  
Laboratory Animal Centre  
Mouse Barrier  
Health monitoring report  
Sampling 9th April 2018
Abbreviations used in this report:

Bead  Multiplexed immunoassay
Cult  Culture
FFSA  Laboratory of the Finnish Food Safety Authority, Oulu
Flot  Faecal flotation
LAC  Laboratory Animal Centre, University of Oulu
Micr  Microscopy
MLN  Mesenteric lymph node
NT   Not tested
PCR  Polymerase chain reaction
RT-PCR  Reverse transcription polymerase chain reaction
SD   Surrey Diagnostics Ltd, University of Surrey

Oulu, 3rd May 2018

Place and date

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