### PATHOGENS AND OTHER ORGANISMS - EXCLUDED FROM ALL BARRIERS (SHIPPING STOPPED)

**Area: MP13**

**Organism** | **Sample Tested** | **Test Method** | **Frequency** | **Jan 14 '19** | **Dec 3 '18** | **Oct 22 '18** | **Sep 10 '18** | **Previous 12 months**
--- | --- | --- | --- | --- | --- | --- | --- | ---
**VIRUSES**

- **Ectromelia virus** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **GDVII (Theiler’s) virus** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Hantaan virus** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **K virus** | Serum | ELISA | annually | - | - | - | - | 0/20
- **LDH elevating virus (LDEV)** | Serum | Enzyme | annually | - | - | - | - | 0/10
- **Lymphocytic choriomeningitis (LCMV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse adenovirus (MAV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse cytomegalovirus (MCMV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse hepatitis virus (MHV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse minute virus (MMV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse norovirus (MNV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse parvovirus (MPV)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Mouse parvovirus (MPV)†** | Lymph node | PCR | 6 weeks | 0/06 | 0/06 | 0/05 | 0/07 | 0/60
- **Mouse thymic virus (MTV)** | Serum | IFA | quarterly | 0/20 | 0/20 | - | - | 0/95
- **Pneumonia virus of mice (PVM)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Polyoma virus** | Serum | ELISA | annually | - | - | - | - | 0/20
- **Reovirus 3 (REO 3)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Rotavirus (EDIM)** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Sendai virus** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170

**BACTERIA & MYCOPLASMA**

- **Bordetella spp.** | Oropharynx | Culture | 6 weeks | 0/26 | 0/26 | 0/25 | 0/24 | 0/230
- **CAR bacillus** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Citrobacter rodentium** | Intestine or feces | Culture | 6 weeks | 0/146 | 0/147 | 0/146 | 0/146 | 0/1238
- **Clostridium piliforme** | Serum | ELISA | quarterly | 0/20 | 0/20 | - | - | 0/95
- **Corynebacterium bovis** | Oropharynx/skin | Culture | 6 weeks | 0/32 | 0/28 | 0/30 | 0/31 | 0/289
- **Corynebacterium kutscheri** | Oropharynx | Culture | 6 weeks | 0/26 | 0/26 | 0/25 | 0/24 | 0/230
- **Helicobacter spp.** | Intestine or feces | PCR | 6 weeks | 0/06 | 0/06 | 0/06 | 0/06 | 0/52
- **Mycoplasma pulmonis** | Serum | MFI | 6 weeks | 0/20 | 0/20 | 0/20 | 0/17 | 0/170
- **Pasturella spp.** | Oropharynx | Culture | 6 weeks | 0/26 | 0/26 | 0/25 | 0/24 | 0/230
- **Salmonella spp.** | Intestine or feces | Culture | 6 weeks | 0/146 | 0/147 | 0/146 | 0/146 | 0/1238
- **Streptococcus pyogenes** | Oropharynx | Culture | 6 weeks | 0/26 | 0/26 | 0/25 | 0/24 | 0/230

*Additional details regarding our health monitoring program and shipping policy.
†The indicated tests are only performed in rooms that house immunodeficient mice.
### PARASITES & PROTOZOA

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample Tested</th>
<th>Test Method</th>
<th>Frequency</th>
<th>Jan 14 '19</th>
<th>Dec 3 '18</th>
<th>Oct 22 '18</th>
<th>Sep 10 '18</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encephalitozoon cuniculi</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/20</td>
<td>0/20</td>
<td>0/17</td>
<td>0/170</td>
</tr>
<tr>
<td>Ectoparasites (fleas, lice, mites)</td>
<td>Fur</td>
<td>Visual</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/52</td>
</tr>
<tr>
<td>Endoparasites (tapeworms, pinworms, and other helminths)</td>
<td>Intestine or cecum</td>
<td>Visual</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/52</td>
</tr>
<tr>
<td>Follicle mites</td>
<td>Subcutis</td>
<td>Visual</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/25</td>
<td>0/24</td>
<td>0/230</td>
</tr>
<tr>
<td>Opportunistic protozoa (e.g., Giardia, Spironucleus)</td>
<td>Intestine</td>
<td>Microscopy</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/52</td>
</tr>
</tbody>
</table>

### OPPORTUNISTIC ORGANISMS MONITORED (SHIPPING NOT STOPPED)

All of these organisms are excluded from JMCRS maximum and high barriers, and most are excluded from standard barrier areas. When a confirmed finding of an excluded organism is made, an investigation is undertaken to identify and eliminate all infected mice from the barrier. Positive results- including results from investigations- are noted in this report, but shipping from the area is not suspended.*

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample Tested</th>
<th>Test Method</th>
<th>Frequency</th>
<th>Jan 14 '19</th>
<th>Dec 3 '18</th>
<th>Oct 22 '18</th>
<th>Sep 10 '18</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Klebsiella pneumoniae</td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/146</td>
<td>0/147</td>
<td>0/146</td>
<td>0/146</td>
<td>0/1238</td>
</tr>
<tr>
<td>Klebsiella spp. other than K. pneumoniae</td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/146</td>
<td>0/147</td>
<td>0/146</td>
<td>0/146</td>
<td>0/1238</td>
</tr>
<tr>
<td>Nonpathogenic protozoa (e.g., Trichomonads)</td>
<td>Intestine</td>
<td>Microscopy</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
<td>0/52</td>
</tr>
<tr>
<td>Pneumocystis murina †</td>
<td>Lung</td>
<td>PCR</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/05</td>
<td>0/07</td>
<td>0/60</td>
</tr>
<tr>
<td>Proteus mirabilis</td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/146</td>
<td>0/147</td>
<td>0/146</td>
<td>0/146</td>
<td>0/1238</td>
</tr>
<tr>
<td>Pseudomonas spp.</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/146</td>
<td>0/147</td>
<td>0/146</td>
<td>0/146</td>
<td>0/1238</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/25</td>
<td>0/24</td>
<td>0/230</td>
</tr>
<tr>
<td>Streptococcus pneumoniae</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/25</td>
<td>0/24</td>
<td>0/230</td>
</tr>
<tr>
<td>Beta-hemolytic Streptococcus spp. (non-group D)</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/25</td>
<td>0/24</td>
<td>0/230</td>
</tr>
</tbody>
</table>

### Gross Pathology

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Frequency</th>
<th>Jan 14 '19</th>
<th>Dec 3 '18</th>
<th>Oct 22 '18</th>
<th>Sep 10 '18</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Necropsy findings</td>
<td>Exam, histopath</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/25</td>
<td>0/24</td>
</tr>
</tbody>
</table>

All tests were performed by The Jackson Laboratory

James R. Fahey, MS, PhD, DVM, DACVM
Chief of Diagnostic Services & Associate Director
Comparative Medicine & Quality

The Jackson Laboratory
600 Main Street
Bar Harbor, ME 04609
1-800-422-6423