### Organisms Sample Tested Test Method Frequency Feb 25 '19 Jan 14 '19 Dec 3 '18 Oct 22 '18 Previous 12 months
#### VIRUSES
- **Ectromelia virus**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **GDVII (Theiler’s) virus**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Hantaan virus**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **K virus**
  - Serum
  - ELISA annually
  - 0/18
- **LDH elevating virus (LDEV)**
  - Serum
  - Enzyme
  - annually
  - 0/10
- **Lymphocytic choriomeningitis (LCMV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse adenovirus (MAV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse cytomegalovirus (MCMV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse hepatitis virus (MHV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse minute virus (MMV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse norovirus (MNV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse parovirus (MPV)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Mouse parovirus (MPV)†**
  - Lymph node
  - PCR
  - 6 weeks
  - 0/01
  - -
  - -
  - 0/54
- **Mouse thymic virus (MTV)**
  - Serum
  - IFA quarterly
  - 0/20
  - 0/20
  - 0/72
- **Pneumonia virus of mice (PVM)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Polyoma virus**
  - Serum
  - ELISA annually
  - 0/18
- **Reovirus 3 (REO 3)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Rotavirus (EDIM)**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Sendai virus**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162

#### BACTERIA & MYCOPLASMA
- **Bordetella spp.**
  - Oropharynx
  - Culture
  - 6 weeks
  - 0/21
  - 0/20
  - 0/25
  - 0/22
  - 0/187
- **CAR bacillus**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Citrobacter rodentium**
  - Intestine or feces
  - Culture
  - 6 weeks
  - 0/68
  - 0/53
  - 0/50
  - 0/47
  - 0/2276
- **Clostridium piliforme**
  - Serum
  - ELISA quarterly
  - 0/20
  - 0/20
  - 0/72
- **Corynebacterium bovis**
  - Oropharynx/skin
  - Culture
  - 6 weeks
  - 0/22
  - 0/20
  - 0/25
  - 0/22
  - 0/187
- **Corynebacterium kutscheri**
  - Oropharynx
  - Culture
  - 6 weeks
  - 0/21
  - 0/20
  - 0/25
  - 0/22
  - 0/187
- **Helicobacter spp.**
  - Intestine or feces
  - PCR
  - 6 weeks
  - 0/06
  - 0/06
  - 0/06
  - 0/06
  - 0/162
- **Mycoplasma pulmonis**
  - Serum
  - MFI
  - 6 weeks
  - 0/20
  - 0/20
  - 0/22
  - 0/162
- **Pasteurella spp.**
  - Oropharynx
  - Culture
  - 6 weeks
  - 0/21
  - 0/20
  - 0/25
  - 0/22
  - 0/187
- **Salmonella spp.**
  - Intestine or feces
  - Culture
  - 6 weeks
  - 0/68
  - 0/53
  - 0/50
  - 0/47
  - 0/2276
- **Streptobacillus moniliformis**
  - Oropharynx
  - Culture
  - 6 weeks
  - 0/21
  - 0/20
  - 0/25
  - 0/22
  - 0/187

*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>Feb 25 '19</th>
<th>Jan 14 '19</th>
<th>Dec 3 '18</th>
<th>Oct 22 '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>0/22</td>
<td>0/162</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>0/162</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>0/162</td>
</tr>
<tr>
<td>Follicle mites</td>
<td>Subcutis</td>
<td>Visual</td>
<td>6 weeks</td>
<td>0/21</td>
<td>0/20</td>
<td>0/25</td>
<td>0/22</td>
<td>0/216</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>0/162</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.*

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<tr>
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<th>Sample Tested</th>
<th>Test Method</th>
<th>Frequency</th>
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<th>Oct 22 '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>0/68</td>
<td>0/53</td>
<td>0/50</td>
<td>0/47</td>
<td>0/2295</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>0/68</td>
<td>0/53</td>
<td>0/50</td>
<td>0/47</td>
<td>0/2295</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>0/162</td>
</tr>
<tr>
<td>Pneumocystis murina †</td>
<td>Lung</td>
<td>PCR</td>
<td>6 weeks</td>
<td>0/01</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0/54</td>
</tr>
<tr>
<td>Proteus mirabilis</td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/68</td>
<td>0/53</td>
<td>0/50</td>
<td>0/47</td>
<td>0/2295</td>
</tr>
<tr>
<td>Pseudomonas spp.</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/68</td>
<td>0/53</td>
<td>0/50</td>
<td>0/47</td>
<td>0/2276</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/21</td>
<td>0/20</td>
<td>0/25</td>
<td>0/22</td>
<td>0/187</td>
</tr>
<tr>
<td>Streptococcus pneumoniae</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/21</td>
<td>0/20</td>
<td>0/25</td>
<td>0/22</td>
<td>0/187</td>
</tr>
<tr>
<td>Beta-hemolytic Streptococcus spp. (non-group D)</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/21</td>
<td>0/20</td>
<td>0/25</td>
<td>0/22</td>
<td>0/187</td>
</tr>
</tbody>
</table>

### Gross Pathology

<table>
<thead>
<tr>
<th>Necropsy findings</th>
<th>Test Method</th>
<th>Frequency</th>
<th>Feb 25 '19</th>
<th>Jan 14 '19</th>
<th>Dec 3 '18</th>
<th>Oct 22 '18</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exam, histopath</td>
<td>6 weeks</td>
<td>0/21</td>
<td>0/20</td>
<td>0/25</td>
<td>0/22</td>
<td>0/216</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

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