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

**VIRUSES**

- Ectromelia virus
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- GDVII (Theiler’s) virus
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Hantaan virus
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/150

- K virus
  - Sample: Serum
  - Method: ELISA annually
  - Test Results: - , - , - , - , - 

- LDH elevating virus (LDEV)
  - Sample: Serum
  - Method: Enzyme
  - Frequency: annually
  - Test Results: 0/10, - , - , - , 0/10

- Lymphocytic choriomeningitis (LCMV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse adenovirus (MAV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse cytomegalovirus (MCMV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse hepatitis virus (MHV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse minute virus (MMV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse norovirus (MNV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse parvovirus (MPV)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Mouse parvovirus (MPV)*
  - Sample: Lymph node
  - Method: PCR
  - Frequency: 6 weeks
  - Test Results: - , - , - , - , 0/0

- Mouse thymic virus (MTV)
  - Sample: Serum
  - Method: IFA
  - Frequency: quarterly
  - Test Results: 0/16, 0/16, - , 0/64

- Pneumonia virus of mice (PVM)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Polyoma virus
  - Sample: Serum
  - Method: ELISA
  - Frequency: annually
  - Test Results: - , - , - , - , 0/16

- Reovirus 3 (REO 3)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Rotavirus (EDIM)
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Sendai virus
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

**BACTERIA & MYCOPLASMA**

- Bordetella spp.
  - Sample: Oropharynx
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- CAR bacillus
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Citrobacter rodentium
  - Sample: Intestine or feces
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Clostridium piliforme
  - Sample: Serum
  - Method: ELISA
  - Frequency: quarterly
  - Test Results: - , 0/16

- Corynebacterium bovis
  - Sample: Oropharynx/skin
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Corynebacterium kutscheri
  - Sample: Oropharynx
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Helicobacter spp.
  - Sample: Intestine or feces
  - Method: PCR
  - Frequency: 6 weeks
  - Test Results: 0/06, 0/06, 0/06, 0/06, 0/53

- Mycoplasma pulmonis
  - Sample: Serum
  - Method: MFI
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Pasteurella spp.
  - Sample: Oropharynx
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Salmonella spp.
  - Sample: Intestine or feces
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

- Streptobacillus moniliformis
  - Sample: Oropharynx
  - Method: Culture
  - Frequency: 6 weeks
  - Test Results: 0/16, 0/16, 0/16, 0/16, 0/144

*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>Mar 26 '18</th>
<th>Feb 12 '18</th>
<th>Jan 2 '18</th>
<th>Nov 20 '17</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Encephalitozoon cuniculi</em></td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</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>0/54</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>0/54</td>
</tr>
<tr>
<td>Follicle mites</td>
<td>Subcutis</td>
<td>Visual</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
<tr>
<td>Opportunistic protozoa (e.g., <em>Giardia</em>, <em>Spironucleus</em>)</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>0/54</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>
</thead>
<tbody>
<tr>
<td><em>Klebsiella pneumonia</em></td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
<tr>
<td><em>Klebsiella</em> spp. other than <em>K. pneumoniae</em></td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>5/144</td>
</tr>
<tr>
<td>Nonpathogenic protozoa (e.g., <em>Trichomonads</em>)</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>0/54</td>
</tr>
<tr>
<td><em>Pneumocystis murina</em> †</td>
<td>Lung</td>
<td>PCR</td>
<td>6 weeks</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0/0</td>
</tr>
<tr>
<td><em>Proteus mirabilis</em></td>
<td>Oropharynx, intestine, or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
<tr>
<td><em>Pseudomonas</em> spp.</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em></td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
<tr>
<td><em>Streptococcus pneumoniae</em></td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
<tr>
<td>Beta-hemolytic <em>Streptococcus</em> spp. (non-group D)</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
</tbody>
</table>

### Gross Pathology

<table>
<thead>
<tr>
<th>Organism</th>
<th>Test Method</th>
<th>Frequency</th>
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<th>Jan 2 '18</th>
<th>Nov 20 '17</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Necropsy findings</td>
<td>Exam, histopath</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/16</td>
<td>0/144</td>
</tr>
</tbody>
</table>

All tests were performed by The Jackson Laboratory

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

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