Genetic Resource Science (GRS)
Repository Health Report
Area: AX10

**HEALTH STATUS**
- PATHOGEN & OPPORTUNIST FREE
- PATHOGEN FREE

**BARRIER LEVEL**
- MAXIMUM BARRIER
- HIGH BARRIER
- STANDARD BARRIER

Please consult our website for descriptions of our health statuses and barrier levels.

**PATHOGENS AND OTHER ORGANISMS - EXCLUDED FROM ALL BARRIERS (SHIPPING STOPPED)**
If one of these organisms is found in any GRS area, all shipments are suspended and customers are notified.*

<table>
<thead>
<tr>
<th>Organism</th>
<th>Sample Tested</th>
<th>Test Method</th>
<th>Frequency</th>
<th>Nov 4 '19</th>
<th>Sep 23 '19</th>
<th>Aug 12 '19</th>
<th>Jul 1 '19</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VIRUSES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ectromelia virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td>GDVII (Theiler’s) virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td>Hantaan virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td>K virus</td>
<td>Serum</td>
<td>ELISA</td>
<td>annually</td>
<td></td>
<td></td>
<td></td>
<td>0/15</td>
<td>0/16</td>
</tr>
<tr>
<td>LDH elevating virus (LDEV)</td>
<td>Serum</td>
<td>Enzyme</td>
<td>annually</td>
<td></td>
<td></td>
<td></td>
<td>0/16</td>
<td></td>
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<tr>
<td>Lymphocytic choriomeningitis (LCMV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
</tr>
<tr>
<td>Mouse adenovirus (MADV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
</tr>
<tr>
<td>Mouse cytomegalovirus (MCMV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
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<tr>
<td>Mouse hepatitis virus (MHV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
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<tr>
<td>Mouse minute virus (MMV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
</tr>
<tr>
<td>Mouse norovirus (MVN)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
</tr>
<tr>
<td>Mouse parvovirus (MPV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
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<tr>
<td>Mouse parvovirus (MPV)*</td>
<td>Lymph node</td>
<td>PCR</td>
<td>6 weeks</td>
<td></td>
<td></td>
<td></td>
<td>0/06</td>
<td>0/16</td>
</tr>
<tr>
<td>Mouse thymic virus (MTV)</td>
<td>Serum</td>
<td>IFA</td>
<td>quarterly</td>
<td>0/16</td>
<td>-</td>
<td>-</td>
<td>0/16</td>
<td>0/80</td>
</tr>
<tr>
<td>Pneumonia virus of mice (PVM)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td>Polyoma virus</td>
<td>Serum</td>
<td>ELISA</td>
<td>annually</td>
<td></td>
<td></td>
<td></td>
<td>0/16</td>
<td></td>
</tr>
<tr>
<td>Reovirus 3 (REO 3)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
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<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
</tr>
<tr>
<td>Rotavirus (EDIM)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/16</td>
</tr>
<tr>
<td>Sendai virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td><strong>BACTERIA &amp; MYCOPLASMA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Bordetella</em> spp.</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/25</td>
</tr>
<tr>
<td><em>Car bacillus</em></td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td><em>Citrobacter rodentium</em></td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/197</td>
</tr>
<tr>
<td><em>Clostridium piliforme</em></td>
<td>Serum</td>
<td>ELISA</td>
<td>quarterly</td>
<td>0/16</td>
<td>-</td>
<td>-</td>
<td>0/16</td>
<td>0/80</td>
</tr>
<tr>
<td><em>Corynebacterium bovis</em></td>
<td>Oropharynx/skin</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/217</td>
</tr>
<tr>
<td><em>Corynebacterium kutscheri</em></td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/215</td>
</tr>
<tr>
<td><em>Helicobacter</em> spp.</td>
<td>Intestine or feces</td>
<td>PCR</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>Mycoplasma pulmonis</em></td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/16</td>
<td>0/143</td>
</tr>
<tr>
<td><em>Pasteurella</em> spp.</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/215</td>
</tr>
<tr>
<td><em>Salmonella</em> spp.</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/197</td>
</tr>
<tr>
<td><em>Streptobacillus moniliformis</em></td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/215</td>
</tr>
</tbody>
</table>

*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>
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<th>Test Method</th>
<th>Frequency</th>
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</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>0/14</td>
<td>0/16</td>
<td>0/143</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>0/14</td>
<td>0/22</td>
<td>0/197</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>0/54</td>
</tr>
</tbody>
</table>

## OPPORTUNISTIC ORGANISMS MONITORED (SHIPPING NOT STOPPED)

All of these organisms are excluded from GRS 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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<th>Test Method</th>
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<th>Nov 4 '19</th>
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<th>Jul 1 '19</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Klebsiella 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>0/14</td>
<td>0/22</td>
<td>0/215</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>4/16</td>
<td>7/16</td>
<td>3/14</td>
<td>10/22</td>
<td>72/215</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>0/54</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>0/06</td>
<td>0/54</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>0/14</td>
<td>0/22</td>
<td>0/215</td>
</tr>
<tr>
<td>Pseudomonas spp.</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>0/197</td>
</tr>
<tr>
<td><em>Streptococcus aureus</em></td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/16</td>
<td>0/16</td>
<td>0/14</td>
<td>0/22</td>
<td>16/428*</td>
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<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>0/14</td>
<td>0/22</td>
<td>0/215</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>0/14</td>
<td>0/22</td>
<td>0/215</td>
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</tbody>
</table>

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<tr>
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<th>Test Method</th>
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<th>Jul 1 '19</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>0/14</td>
<td>0/22</td>
<td>0/197</td>
<td></td>
</tr>
</tbody>
</table>

* A test & cull was initiated to eliminate this organism from the room. No additional positives were found, and the investigation was successfully concluded. For additional information, please call 207 288-6205.

*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

AX10

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Bar Harbor, ME 04609  
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