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

If one of these organisms is found in any JMCERS 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>Jul 30 '18</th>
<th>Jun 18 '18</th>
<th>May 7 '18</th>
<th>Mar 26 '18</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>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>GDVII (Theiler’s) virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Hantaan virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>K virus</td>
<td>Serum</td>
<td>ELISA</td>
<td>annually</td>
<td>-</td>
<td>-</td>
<td>0/20</td>
<td>-</td>
<td>0/20</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>0/10</td>
<td>0/10</td>
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<tr>
<td>Lymphocytic choriomeningitis (LCMV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Mouse adenovirus (MADV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Mouse cytomegalovirus (MCMV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Mouse hepatitis virus (MHV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
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<tr>
<td>Mouse minute virus (MMV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
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<tr>
<td>Mouse norovirus (MNV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
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<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Mouse parvovirus (MPV)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Mouse parvovirus (MPV)†</td>
<td>Lymph node</td>
<td>PCR</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/07</td>
<td>0/06</td>
<td>0/07</td>
<td>0/61</td>
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<tr>
<td>Mouse thymic virus (MTV)</td>
<td>Serum</td>
<td>IFA</td>
<td>quarterly</td>
<td>0/20</td>
<td>0/19</td>
<td>-</td>
<td>-</td>
<td>0/95</td>
</tr>
<tr>
<td>Pneumonia virus of mice (PVM)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Polyoma virus</td>
<td>Serum</td>
<td>ELISA</td>
<td>annually</td>
<td>-</td>
<td>-</td>
<td>0/20</td>
<td>-</td>
<td>0/20</td>
</tr>
<tr>
<td>Reovirus 3 (REO 3)</td>
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<td>6 weeks</td>
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<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Rotavirus (EDIM)</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
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<tr>
<td>Sendai virus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td><strong>BACTERIA &amp; MYCOPLASMA</strong></td>
<td></td>
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</tr>
<tr>
<td>Bordetella spp.</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
<td>0/232</td>
</tr>
<tr>
<td>CAR bacillus</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Citrobacter rodentium</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/148</td>
<td>0/154</td>
<td>0/138</td>
<td>0/135</td>
<td>0/1200</td>
</tr>
<tr>
<td>Clostridium piliforme</td>
<td>Serum</td>
<td>ELISA</td>
<td>quarterly</td>
<td>0/20</td>
<td>0/19</td>
<td>-</td>
<td>-</td>
<td>0/95</td>
</tr>
<tr>
<td>Corynebacterium bovis</td>
<td>Oropharynx/skin</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/32</td>
<td>0/33</td>
<td>0/32</td>
<td>0/31</td>
<td>0/291</td>
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<tr>
<td>Corynebacterium kutscheri</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
<td>0/232</td>
</tr>
<tr>
<td>Helicobacter 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>0/52</td>
</tr>
<tr>
<td>Mycoplasma pulmonis</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
<td>0/17</td>
<td>0/171</td>
</tr>
<tr>
<td>Pasteurella spp.</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
<td>0/232</td>
</tr>
<tr>
<td>Salmonella spp.</td>
<td>Intestine or feces</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/148</td>
<td>0/154</td>
<td>0/138</td>
<td>0/135</td>
<td>0/1200</td>
</tr>
<tr>
<td>Streptococcus moniliformis</td>
<td>Oropharynx</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
<td>0/232</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.
### Organisms Sampled and Tested

<table>
<thead>
<tr>
<th>Organism Sample Tested</th>
<th>Test Method</th>
<th>Frequency Jul</th>
<th>Jun 18 ’18</th>
<th>May 7 ’18</th>
<th>Mar 26 ’18</th>
<th>Previous 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PARASITES &amp; PROTOZOA</strong></td>
<td></td>
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</tr>
<tr>
<td>Encephalitozoon cuniculi</td>
<td>Serum</td>
<td>MFI</td>
<td>6 weeks</td>
<td>0/20</td>
<td>0/19</td>
<td>0/20</td>
</tr>
<tr>
<td>Ectoparasites (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>
</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>
</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>0/26</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>
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<tr>
<td><strong>OPPORTUNISTIC ORGANISMS MONITORED (SHIPPING NOT STOPPED)</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Nonpathogenic protozoa (e.g., Trichomonads)</strong></td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/148</td>
<td>0/154</td>
<td>0/138</td>
<td>0/135</td>
</tr>
<tr>
<td><strong>Nonpathogenic protozoa (e.g., Trichomonads)</strong></td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/148</td>
<td>0/154</td>
<td>0/138</td>
<td>0/135</td>
</tr>
<tr>
<td>Klebsiella pneumoniae</td>
<td>Intestine</td>
<td>Microscopy</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
</tr>
<tr>
<td>Klebsiella spp. other than K. pneumoniae</td>
<td>Intestine</td>
<td>Microscopy</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/06</td>
<td>0/06</td>
</tr>
<tr>
<td>Pneumocystis murina †</td>
<td>Lung</td>
<td>PCR</td>
<td>6 weeks</td>
<td>0/06</td>
<td>0/07</td>
<td>0/06</td>
</tr>
<tr>
<td>Proteus mirabilis</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/148</td>
<td>0/154</td>
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<td>0/135</td>
</tr>
<tr>
<td>Pseudomonas spp.</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/148</td>
<td>0/154</td>
<td>0/138</td>
<td>0/135</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
</tr>
<tr>
<td>Streptococcus pneumoniae</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
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<tr>
<td>Beta-hemolytic Streptococcus spp. (non-group D)</td>
<td>Culture</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
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<table>
<thead>
<tr>
<th>Gross Pathology</th>
<th>Test Method</th>
<th>Frequency Jul</th>
<th>Jun 18 ’18</th>
<th>May 7 ’18</th>
<th>Mar 26 ’18</th>
<th>Previous 12 months</th>
</tr>
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<tbody>
<tr>
<td>Necropsy findings</td>
<td>Exam, histopath</td>
<td>6 weeks</td>
<td>0/26</td>
<td>0/26</td>
<td>0/26</td>
<td>0/24</td>
</tr>
</tbody>
</table>

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**All tests were performed by The Jackson Laboratory**

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**MP13**

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

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