

This report summarizes the cumulative results of tests performed on dirty bedding sentinels from Room 112 MBP at UC Davis, CA. Note data are reported as positive tests / total tests performed. Please contact the Mouse Biology Program at 530-757-3333 or email [mbp@ucdavis.edu](mailto:mbp@ucdavis.edu) with questions about this report or animal health related issues.



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| Organism   | Sample                    | Test Method  | Sep '20                                 | Dec '20                                 | Mar '21         | Jun '21  | Sep '21         | Current as of 11/02/21                  |
|--|---------------------------|--------------|---|---|-----------------|--|-----------------|---|
| <b>VIRUSES</b>   |                           |              |   |   |                 |  |                 |   |
| Ectromelia virus   | Serum                     | MFI/ELISA    | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| GDVII (Theiler's) virus  | Serum                     | MFI/ELISA    | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Lymphocytic choriomeningitis (LCMV)  | Serum                     | MFI/ELISA    | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Minute virus of mice (MVM)   | Serum                     | MFI/ELISA    | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Mouse adenovirus of mice (MAV 1 & 2)   | Serum                     | MFI/ELISA    | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Mouse hepatitis virus (MHV)  | Serum                     | MFI/ELISA    | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Mouse parvovirus (MPV)   | Serum/<br>LN <sup>1</sup> | ELISA<br>PCR | 0/30<br>0/59                            | 0/28<br>0/55                            | 0/34<br>0/66    | 0/44<br>0/87                                     | 0/6<br>0/12     | 0/10<br>0/20                            |
| Pneumonia virus of mice (PVM)  | Serum                     | ELISA        | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Reovirus 3 (REO 3)   | Serum                     | ELISA        | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Rotavirus (EDIM)   | Serum                     | ELISA        | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Sendai virus   | Serum                     | ELISA        | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| Murine norovirus (MNV)   | Serum                     | ELISA        | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/6             | 0/10                                    |
| <b>BACTERIA &amp; MYCOPLASMA</b>   |                           |              |   |   |                 |  |                 |   |
| <i>Klebsiella</i> species  | Nasopharynx               | Culture      | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/7             | 0/10                                    |
| <i>Pasteurella pneumotropica</i>   | Nasopharynx               | Culture      | 0/30                                    | 0/28                                    | 0/34            | 0/44   | 0/7             | 0/10                                    |
| <i>Staphylococcus aureus</i>   | Nasopharynx               | Culture      | 0/30                                    | 0/28                                    | 0/34            | <b>11/28</b>                                     | 0/7             | 0/10                                    |
| Other respiratory bacteria, including:<br><i>Bordetella bronchiseptica</i><br><i>Corynebacterium kutscheri</i><br><i>Pasteurella multocida</i><br><i>Streptobacillus moniliformis</i><br><i>Streptococcus, β hemolytic</i> | Nasopharynx               | Culture      | 0/30                                    | 0/28                                    | 0/34            | <b>55/73</b><br>( <i>C. bovis</i> ) <sup>5</sup> | 0/7             | 0/10                                    |
| <i>Cornebacterium bovis</i>  | Skin swab                 | PCR          | NT <sup>5</sup>                         | NT <sup>5</sup>                         | NT <sup>5</sup> | <b>60/60</b>                                     | NT <sup>5</sup> | NT <sup>5</sup>                         |
| <i>Mycoplasma arthritidis</i><br><i>Mycoplasma pulmonis</i>  | Serum                     | ELISA        | 0/30                                    | 0/28                                    | 0/34            | 0/14   | 0/7             | 0/10                                    |
| Intestinal bacteria, including:<br><i>Citrobacter rodentium</i><br><i>Klebsiella</i> species<br><i>Pseudomonas</i> species<br><i>Salmonella</i> species  | Intestine                 | Culture      | <b>2/30</b><br>( <i>K. pneumoniae</i> ) | <b>2/28</b><br>( <i>P. aeruginosa</i> ) | 0/34            | <b>2/14</b><br>( <i>P. aeruginosa</i> )          | 0/7             | <b>1/10</b><br>( <i>P. aeruginosa</i> ) |

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|---|-----------------|-------------|-----------------|-----------------|---------|-----------------|-----------------|------------------------|
| <b>BACTERIA &amp; MYCOPLASMA</b>  |                 |             |                 |                 |         |                 |                 |                        |
| Helicobacter species<br><i>H. hepaticus</i><br><i>H. bilis</i><br><i>H. rodentium</i><br><i>H. typhlonius</i> | Intestine/Feces | PCR         | 0/59            | 0/55            | 0/66    | 0/28            | 0/12            | 0/20                   |
| <b>PARASITES &amp; PROTOZOA</b>   |                 |             |                 |                 |         |                 |                 |                        |
| Fleas, fur mites, lice  | Fur             | Micro       | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |
| Fur Mites   | Fur/<br>Bedding | PCR         | 0/12            | 0/16            | 0/18    | NT <sup>2</sup> | 0/10            | 0/10                   |
| Follicle mites<br>( <i>Psorergates simplex</i> )  | Subcutis        | Visual      | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |
| Pinworms, e.g., <i>Syphacia</i> species   | Cecum           | Visual      | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |
| Roundworms and other helminths  | Intestine       | Visual      | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |
| Pinworms, e.g., <i>Syphacia</i> species   | Feces           | PCR         | NT <sup>4</sup> | NT <sup>4</sup> | 0/8     | 0/28            | NT <sup>4</sup> | NT <sup>4</sup>        |
| Tapeworms, e.g.,<br><i>Hymenolepis</i> species  | Intestine       | Visual      | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |
| Trichomonads  | Intestine       | Micro       | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |
| Other intestinal protozoa, including:<br><i>Spiroucleus muris</i><br><i>Giardia muris</i>                     | Intestine       | Micro       | 0/30            | 0/28            | 0/34    | 0/14            | 0/7             | 0/10                   |

<sup>1</sup>LN = Lymph Node

<sup>2</sup>NT = Not Tested. Fur mite PCR screening is performed on a semi-annual basis.

<sup>4</sup>NT = Not Tested. Beginning in March 2021, pinworms PCR screening is performed on a semi-annual basis

<sup>5</sup>NT = Not Tested. We were notified sentinel mice were exposed to *C. bovis* from stock colony prior to transport to MBP 2nd Street vivarium. Once informed, all sentinel animals were submitted for screening and we received notice of positive test results for *C. bovis* on May 28, 2021. Further screening of animals in room is in progress and on June 1, 2021 new sentinels were obtained from a different source/vendor. There are currently no positives on swabs, and testing moving forward on sentinels will be performed regularly through culture, and PCR from swab samples will only be performed if lesions are present.

The MBP 2<sup>nd</sup> Street Facility area is a 7-room, conventional production building located at the University of California, Davis.