

This report summarizes the cumulative results of tests performed on dirty bedding sentinels from MBP Room 111 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 with questions about this report or animal health related issues.



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| Organism | Sample | Test Method | Jun '23 | Sep '23 | Dec '23 | Mar '24 | Jun '24 | Sep '24 |
|---|---------------------------|--------------|---|---|---|---|---|---|
| VIRUSES | | | | | | | | |
| Ectromelia virus | Serum | MFI/ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| GDVII (Theiler's) virus | Serum | MFI/ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Lymphocytic choriomeningitis (LCMV) | Serum | MFI/ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Minute virus of mice (MVM) | Serum | MFI/ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Mouse adenovirus of mice (MAV 1 & 2) | Serum | MFI/ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Mouse hepatitis virus (MHV) | Serum | MFI/ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Mouse parvovirus (MPV) | Serum/ LN ¹ | ELISA PCR | 0/18 0/36 | 0/14 0/28 | 0/12 0/24 | 0/12 0/24 | 0/12 0/24 | 0/16 0/32 |
| Pneumonia virus of mice (PVM) | Serum | ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Reovirus 3 (REO 3) | Serum | ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Rotavirus (EDIM) | Serum | ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Sendai virus | Serum | ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Murine norovirus (MNV) | Serum | ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| BACTERIA & MYCOPLASMA | | | | | | | | |
| <i>Klebsiella</i> species | Nasopharynx | Culture | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| <i>Pasteurella pneumotropica</i> | Nasopharynx | Culture | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| <i>Staphylococcus aureus</i> | Nasopharynx | Culture | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Other respiratory bacteria, including: <i>Bordetella bronchiseptica</i> <i>Corynebacterium kutscheri</i> <i>Pasteurella multocida</i> <i>Streptobacillus moniliformis</i> <i>Streptococcus β hemolytic</i> | Nasopharynx | Culture | 4/18 <i>(non-bovis corynebacterium sp.)</i> | 1/14 <i>(non-bovis corynebacterium sp.)</i> | 1/12 <i>(non-bovis corynebacterium sp.)</i> | 2/12 <i>(non-bovis corynebacterium sp.)</i> | 3/12 <i>(non-bovis corynebacterium sp.)</i> | 1/16 <i>(non-bovis corynebacterium sp.)</i> |
| <i>Corynebacterium bovis</i> | Nasopharynx | PCR | 0/4 | 0/1 | 0/1 | 0/2 | 0/3 | 0/1 |
| <i>Mycoplasma arthritis</i> <i>Mycoplasma pulmonis</i> | Serum | ELISA | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Intestinal bacteria, including: <i>Citrobacter rodentium</i> <i>Klebsiella</i> species <i>Pseudomonas</i> species <i>Salmonella</i> species | Intestine | Culture | 1/18 <i>(K. pneumoniae)</i> | 1/14 <i>(C. farmeri)</i> | 1/12 <i>(K. pneumoniae)</i> | 0/12 | 0/12 | 0/16 |

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|--|-----------------|-------------|---------|---------|---------|---------|---------|---------|
| BACTERIA & MYCOPLASMA | | | | | | | | |
| Helicobacter species <i>H. hepaticus</i> <i>H. bilis</i> <i>H. rodentium</i> <i>H. typhlonius</i> | Intestine/Feces | PCR | 0/36 | 0/28* | 0/24 | 0/24 | 0/24 | 0/32 |
| PARASITES & PROTOZOA | | | | | | | | |
| Fleas, fur mites, lice | Fur | Micro | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Fur mites | Fur/ bedding | PCR | 0/6 | 0/8 | 0/4 | 0/8 | 0/4 | 0/12 |
| Follicle mites (<i>Psorergates simplex</i>) | Subcutis | Visual | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Pinworms, e.g., <i>Syphacia</i> species | Cecum | Visual | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Roundworms and other helminths | Intestine | Visual | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Pinworms, e.g., <i>Syphacia</i> species | Feces | PCR | 0/24 | 0/12 | 0/16 | 0/8 | 0/16 | 0/8 |
| Tapeworms, e.g., <i>Hymenolepis</i> species | Intestine | Visual | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Trichomonads | Intestine | Micro | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |
| Other intestinal protozoa, including: <i>Spironucleus muris</i> <i>Giardia muris</i> <i>Entamoeba muris</i> | Intestine | Micro | 0/18 | 0/14 | 0/12 | 0/12 | 0/12 | 0/16 |

¹LN = Lymph Node

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

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

⁵NT = Not Tested. We were notified sentinel mice were exposed to *C. bovis* from the stock colony prior to transport to MBP 2nd Street vivarium. Upon notification, 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 was performed and on June 1, 2021 new sentinels were obtained from a different source/vendor. After 6 month of consecutive negative swabs, supplementary swabbing was discontinued. Sentinel testing continues to be performed regularly through culture, with PCR from swab samples only conducted if lesions are present.

*One sentinel cage submitted on September 19th, 2023 was reported to be positive for *Helicobacter typhlonius* by pooled fecal PCR. This result was one of multiple submissions from several facilities with an unexpected *Helicobacter* result, and supplementary fecal testing from the entire rack was negative upon pooled fecal PCR (n=3 submissions). The initial result was interpreted to be false by subsequent exclusionary testing as of September 28th, 2023. All sentinels will continue to be screened for *Helicobacter* via PCR per standard testing protocol.

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