University of California, Davis Mouse Biology Program

2ND STREET FACILITY
AREA: Rm 111 - MBP
ANIMAL HEALTH REPORT

Date: 9/30/2023

Result Summary

Data added October 2023

Current positive results are in **bold**.

See data below.

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 '22	Sep '22	Dec '22	Mar '23	Jun '23	Sep '23
VIRUSES								
Ectromelia virus	Serum	MFI/ELISA	0/20	0/26	0/14	0/12	0/18	0/14
GDVII (Theiler's) virus	Serum	MFI/ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Lymphocytic choriomeningitis (LCMV)	Serum	MFI/ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Minute virus of mice (MVM)	Serum	MFI/ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Mouse adenovirus of mice (MAV 1 & 2)	Serum	MFI/ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Mouse hepatitis virus (MHV)	Serum	MFI/ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Mouse parvovirus (MPV)	Serum/ LN[1]	ELISA PCR	0/20 0/40	0/26 0/52	0/14 0/28	0/12 0/24	0/18 0/36	0/14 0/28
Pneumonia virus of mice (PVM)	Serum	ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Reovirus 3 (REO 3)	Serum	ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Rotavirus (EDIM)	Serum	ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Sendai virus	Serum	ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Murine norovirus (MNV)	Serum	ELISA	0/20	0/26	0/14	0/12	0/18	0/14
BACTERIA & MYCOPLASMA								
Klebsiella species	Nasopharynx	Culture	0/20	0/26	0/14	0/12	0/18	0/14
Pasteurella pneumotropica	Nasopharynx	Culture	0/20	0/26	0/14	0/12	0/18	0/14
Staphylococcus aureus	Nasopharynx	Culture	0/20	0/26	0/14	0/12	0/18	0/14
Other respiratory bacteria, including: *Bordetella bronchiseptica* *Corynebacterium kutscheri* *Pasteurella multocida* *Streptobacillus moniliformis* *Streptococcus β hemolytic*	Nasopharynx	Culture	0/20	**7/24** *(non-bovis corynebacterium sp.)*	**2/14** *(C. mastitidis)*	0/12	**4/18** *(non-bovis corynebacterium sp.)*	**1/14** *(non-bovis corynebacterium sp.)*
Corynebacterium bovis	Skin swab	PCR	NT[5]	NT[5]	NT[5]	NT[5]	NT[5]	NT[5]
Mycoplasma arthritidis *Mycoplasma pulmonis*	Serum	ELISA	0/20	0/26	0/14	0/12	0/18	0/14
Intestinal bacteria, including: *Citrobacter rodentium* *Klebsiella* species *Pseudomonas* species *Salmonella* species	Intestine	Culture	0/20	**1/26** *(P. fulva.)*	0/14	0/12	**1/18** *(K. pneumoniae)*	**1/14** *(C. farmeri)*

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BACTERIA & MYCOPLASMA								
Helicobacter species *H. hepaticus* *H. bilis* *H. rodentium* *H. typhlonius*	Intestine/Feces	PCR	0/40	0/52	0/28	0/24	0/36	0/28*
PARASITES & PROTOZOA								
Fleas, fur mites, lice	Fur	Micro	0/20	0/26	0/14	0/12	0/18	0/14
Fur mites	Fur/ bedding	PCR	0/14	0/14	0/6	0/6	0/6	0/8
Follicle mites (*Psorergates simplex*)	Subcutis	Visual	0/20	0/26	0/14	0/12	0/18	0/14
Pinworms, e.g., *Syphacia* species	Cecum	Visual	0/20	0/26	0/14	0/12	0/18	0/14
Roundworms and other helminths	Intestine	Visual	0/20	0/26	0/14	0/12	0/18	0/14
Pinworms, e.g., *Syphacia* species	Feces	PCR	0/12	0/24	0/16	0/12	0/24	0/12
Tapeworms, e.g., *Hymenolepis* species	Intestine	Visual	0/20	0/26	0/14	0/12	0/18	0/14
Trichomonads	Intestine	Micro	0/20	0/26	0/14	0/12	0/18	0/14
Other intestinal protozoa, including: *Spironucleus muris* *Giardia muris* *Entamoeba muris*	Intestine	Micro	0/20	0/26	0/14	0/12	0/18	0/14

[1]LN = Lymph Node

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

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

[5]NT = 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.