

**FINAL REPORT OF LABORATORY EXAMINATION**

4011 Discovery Drive, Columbia, MO 65201

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**IDEXX BioAnalytics Case # 108198-2023**

**Received Date: 3/22/2023**

**Completed: 3/24/2023**

**Submitted By**

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**Specimen Description**

Species: mouse

Description: Feces; Pelt Swab

Number of Specimens/Animals: 10

Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species	Sex
W116 Mouse Pinworm Fecal Sample 1	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Pinworm Fecal Sample 2	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Pinworm Fecal Sample 3	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Fur Mite Pelt Swab 1	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Fur Mite Pelt Swab 2	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Fur Mite Pelt Swab 3	Amos-Landgraf	W116	mouse	M/F
W113 Mouse Pinworm Fecal Sample Rack 2-4A	Amos-Landgraf	W113	mouse	M/F

Client ID	Investigator	Room #	Species	Sex
W113 Mouse Pinworm Fecal Sample Rack 4B-6	Amos-Landgraf	W113	mouse	M/F
W113 Mouse Fur Mite Pelt Swab Rack 2-4A	Amos-Landgraf	W113	mouse	M/F
W113 Mouse Fur Mite Pelt Swab Rack 4B-6	Amos-Landgraf	W113	mouse	M/F

**Services/Tests Performed:** Pinworm and Fur Mite Panel (1-10)

**PCR evaluation for:** *Aspiculuris tetraptera*, *Myocoptes*, *Radfordia/Myobia*, *Syphacia muris*, *Syphacia obvelata*

**General Comments:** Quarterly Mouse Pinworm and Fur Mite Testing for "A" Status rooms (W113 & W116) at the MMRRRC, 3/22/23, KAV

**Summary:** All test results were negative.

## PCR EVALUATION

feces	W116 Mouse Pinworm Fecal Sample 1
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W116 Mouse Pinworm Fecal Sample 2
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W116 Mouse Pinworm Fecal Sample 3
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W113 Mouse Pinworm Fecal Sample Rack 2-4A
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W113 Mouse Pinworm Fecal Sample Rack 4B-6
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

pelt swab	W116 Mouse Fur Mite Pelt Swab 1
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W116 Mouse Fur Mite Pelt Swab 2
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W116 Mouse Fur Mite Pelt Swab 3
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 Mouse Fur Mite Pelt Swab Rack 2-4A
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 Mouse Fur Mite Pelt Swab Rack 4B-6
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

Legend: + = positive - = negative id:id = pooled sample range id+id+id = non-range pooled sample inc = inconclusive NT or blank = no test performed sus = suspect wps = weak positive XX = Testing in progress

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IDEXX BioAnalytics Case # 107381-2023

Received Date: 3/22/2023

Completed: 3/24/2023

Submitted By

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Specimen Description

Species: mouse  
Breed/Strain: CR ATH HE  
Description: Whole Animal  
Number of Specimens/Animals: 13  
Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
116-A	Franklin	W116	mouse	CR ATH HE	F	1	12/12/2022
116-B	Franklin	W116	mouse	CR ATH HE	F	2	12/12/2022
116-C	Franklin	W116	mouse	CR ATH HE	F	3	12/12/2022
116-D	Amos-Landgraf	W116	mouse	CR ATH HE	F	4	12/12/2022
116-E	Franklin	W116	mouse	CR ATH HE	F	5	12/12/2022
116-F	Bryda	W116	mouse	CR ATH HE	F	5	12/12/2022
113-A	Bryda	W113	mouse	CR ATH HE	F	2	12/12/2022
113-B	Bryda	W113	mouse	CR ATH HE	F	3	12/12/2022
113-C	Bryda	W113	mouse	CR ATH HE	F	4	12/12/2022
113-D	Bryda	W113	mouse	CR ATH HE	F	5	12/12/2022
113-E	Bryda	W113	mouse	CR ATH HE	F	6	12/12/2022
114-A	Bryda	W114	mouse	CR ATH HE	F	4	12/12/2022
114-B	Bryda	W114	mouse	CR ATH HE	F	5	12/12/2022

Services/Tests Performed: MU MMRRC Mouse Quarterly Sentinel and Rederivation Surrogate Profile (1-13)

**Serologic evaluation for antibodies to:** *Mycoplasma pulmonis*, *Pneumocystis murina*, Ectromelia, EDIM, LCMV, MAV1, MAV2, MHV, MNV, MPV, MVM, Polyoma, PVM, REO3, Sendai, TMEV

**PCR evaluation for:** *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter spp.*, *Helicobacter typhlonius*, *Mycoplasma pulmonis*, *Streptococcus sp.*

beta hemolytic Group A, *Streptococcus* sp. beta hemolytic Group B, *Streptococcus* sp. beta hemolytic Group C, *Streptococcus* sp. beta hemolytic Group G

**Parasitologic evaluation for:** fur mites, mesostigmatid mites, lice, *Spironucleus muris*, *Giardia muris*, large intestinal flagellates and amoeba, pinworms and tapeworms

**Microbiologic evaluation for:** *Bordetella pseudohinzii*, *Citrobacter rodentium*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Rodentibacter heylii*, *Rodentibacter pneumotropicus*, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** Discovery Ridge - 2023 Q1 'A' room mouse sentinel necropsies

**Summary:** All test results were negative. Please see the report for details.

## NECROPSY

No gross lesions were detected in any of the body systems and organs examined.

## SEROLOGY SUMMARY

	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
Ectromelia	-	-	-	-	-	-	-	-	-
EDIM	-	-	-	-	-	-	-	-	-
LCMV	-	-	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-
MAV1	-	-	-	-	-	-	-	-	-
MAV2	-	-	-	-	-	-	-	-	-
MHV	-	-	-	-	-	-	-	-	-
MNV	-	-	-	-	-	-	-	-	-
MPV	-	-	-	-	-	-	-	-	-
MVM	-	-	-	-	-	-	-	-	-
<i>Pneumocystis murina</i>	-	-	-	-	-	-	-	-	-
Polyoma	-	-	-	-	-	-	-	-	-
PVM	-	-	-	-	-	-	-	-	-
REO3	-	-	-	-	-	-	-	-	-
TMEV	-	-	-	-	-	-	-	-	-
Sendai	-	-	-	-	-	-	-	-	-
Mouse IgG	N	N	N	N	N	N	N	N	N

	113-D	113-E	114-A	114-B
Ectromelia	-	-	-	-
EDIM	-	-	-	-
LCMV	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-
MAV1	-	-	-	-
MAV2	-	-	-	-
MHV	-	-	-	-
MNV	-	-	-	-
MPV	-	-	-	-
MVM	-	-	-	-
<i>Pneumocystis murina</i>	-	-	-	-
Polyoma	-	-	-	-
PVM	-	-	-	-
REO3	-	-	-	-
TMEV	-	-	-	-
Sendai	-	-	-	-

	113-D	113-E	114-A	114-B
Mouse IgG	N	N	N	N

**Legend:** + = positive - = negative blank = test not performed EQ = equivocal HE = hemolysis precluded testing I = insufficient W = weak positive WB = Western Blot confirmatory analysis pending NS = non-specific reactivity N = normal IgG L = less than normal IgG

## PCR EVALUATION

feces	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
<i>Helicobacter</i> spp.	-	-	-	-	-	-	-	-	-
<i>Helicobacter bilis</i>	-	-	-	-	-	-	-	-	-
<i>Helicobacter ganmani</i>	-	-	-	-	-	-	-	-	-
<i>Helicobacter hepaticus</i>	-	-	-	-	-	-	-	-	-
<i>Helicobacter mastomyrinus</i>	-	-	-	-	-	-	-	-	-
<i>Helicobacter rodentium</i>	-	-	-	-	-	-	-	-	-
<i>Helicobacter typhlonius</i>	-	-	-	-	-	-	-	-	-

feces	113-D	113-E	114-A	114-B
<i>Helicobacter</i> spp.	-	-	-	-
<i>Helicobacter bilis</i>	-	-	-	-
<i>Helicobacter ganmani</i>	-	-	-	-
<i>Helicobacter hepaticus</i>	-	-	-	-
<i>Helicobacter mastomyrinus</i>	-	-	-	-
<i>Helicobacter rodentium</i>	-	-	-	-
<i>Helicobacter typhlonius</i>	-	-	-	-

oral swab	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group A	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group B	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group C	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group G	-	-	-	-	-	-	-	-	-

oral swab	113-D	113-E	114-A	114-B
<i>Mycoplasma pulmonis</i>	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group A	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group B	-	-	-	-

oral swab	113-D	113-E	114-A	114-B
<i>Streptococcus</i> sp. beta hemolytic Group C	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group G	-	-	-	-

Legend: + = positive - = negative id:id = pooled sample range id+id+id = non-range pooled sample inc = inconclusive NT or blank = no test performed sus = suspect wps = weak positive XX = Testing in progress

## PARASITOLOGY

	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
parasites	-	-	-	-	-	-	-	-	-

	113-D	113-E	114-A	114-B
parasites	-	-	-	-

## MICROBIOLOGY

Specimen/Source: cecum

Isolate	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
<i>Citrobacter rodentium</i>	-	-	-	-	-	-	-	-	-
<i>Klebsiella oxytoca</i>	-	-	-	-	-	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-	-	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-	-	-	-	-	-

Specimen/Source: cecum

Isolate	113-D	113-E	114-A	114-B
<i>Citrobacter rodentium</i>	-	-	-	-
<i>Klebsiella oxytoca</i>	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-

Specimen/Source: oral swab

Isolate	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
<i>Bordetella pseudohinzii</i>	-	-	-	-	-	-	-	-	-
<i>Rodentibacter heylII</i>	-	-	-	-	-	-	-	-	-
<i>Rodentibacter pneumotropicus</i>	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-

Specimen/Source: oral swab

Isolate	113-D	113-E	114-A	114-B
<i>Bordetella pseudohinzii</i>	-	-	-	-
<i>Rodentibacter heylII</i>	-	-	-	-
<i>Rodentibacter pneumotropicus</i>	-	-	-	-

Isolate	113-D	113-E	114-A	114-B
<i>Streptococcus pneumoniae</i>	-	-	-	-

Legend: + = agent recovered - = agent not recovered blank = test not performed n = no growth X = Preliminary

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IDEXX BioAnalytics Case # 107381-2023

Received Date: 3/22/2023

Completed: 3/24/2023

SEROLOGY DETAILS

	Baseline	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
<b>Ectromelia</b>										
Ectromelia purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-
<b>EDIM</b>										
EDIM purified virus	MFI > 4.000	-	-	-	-	-	-	-	-	-
EDIM VP6 recombinant	MFI > 2.500	-	-	-	-	-	-	-	-	-
<b>LCMV</b>										
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-	-	-
<b>Mycoplasma pulmonis</b>										
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-	-	-	-	-	-	-
<b>MAV1</b>										
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-
<b>MAV2</b>										
MAV2 purified virus	MFI > 4.500	-	-	-	-	-	-	-	-	-
<b>MHV</b>										
MHV purified virus	MFI > 2.500	-	-	-	-	-	-	-	-	-
MHV NC recombinant	MFI > 2.500	-	-	-	-	-	-	-	-	-
<b>MNV</b>										
MNV purified virus	MFI > 3.000	-	-	-	-	-	-	-	-	-
MNV VP1 recombinant	MFI > 4.000	-	-	-	-	-	-	-	-	-
<b>MPV</b>										
MPV VP2 recombinant	MFI > 2.000	-	-	-	-	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.750	-	-	-	-	-	-	-	-	-
<b>MVM</b>										
MVM VP2 recombinant	MFI > 2.000	-	-	-	-	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.750	-	-	-	-	-	-	-	-	-
<b>Pneumocystis murina</b>										
<i>P. murina</i>	MFI > 0.750	-	-	-	-	-	-	-	-	-

If you have questions, please call our toll free number at 1-800-669-0825 or e-mail us at [IdxBioAnalytics@idexx.com](mailto:IdxBioAnalytics@idexx.com).

	Baseline	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C
<b>Polyoma</b>										
Polyoma purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-
<b>PVM</b>										
PVM purified virus	MFI > 2.500	-	-	-	-	-	-	-	-	-
<b>REO3</b>										
REO3 purified virus	MFI > 4.900	-	-	-	-	-	-	-	-	-
<b>TMEV</b>										
TMEV purified virus	MFI > 2.250	-	-	-	-	-	-	-	-	-
wt TMEV purified virus	MFI > 3.500	-	-	-	-	-	-	-	-	-
<b>Sendai</b>										
Sendai purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-

	Baseline	113-D	113-E	114-A	114-B
<b>Ectromelia</b>					
Ectromelia purified virus	MFI > 2.000	-	-	-	-
<b>EDIM</b>					
EDIM purified virus	MFI > 4.000	-	-	-	-
EDIM VP6 recombinant	MFI > 2.500	-	-	-	-
<b>LCMV</b>					
LCMV recombinant	MFI > 3.000	-	-	-	-
<b>Mycoplasma pulmonis</b>					
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-	-
<b>MAV1</b>					
MAV1 purified virus	MFI > 3.750	-	-	-	-
<b>MAV2</b>					
MAV2 purified virus	MFI > 4.500	-	-	-	-
<b>MHV</b>					
MHV purified virus	MFI > 2.500	-	-	-	-
MHV NC recombinant	MFI > 2.500	-	-	-	-
<b>MNV</b>					
MNV purified virus	MFI > 3.000	-	-	-	-
MNV VP1 recombinant	MFI > 4.000	-	-	-	-
<b>MPV</b>					
MPV VP2 recombinant	MFI > 2.000	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.750	-	-	-	-
<b>MVM</b>					
MVM VP2 recombinant	MFI > 2.000	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.750	-	-	-	-
<b>Pneumocystis murina</b>					
<i>P. murina</i>	MFI > 0.750	-	-	-	-

	Baseline	113-D	113-E	114-A	114-B
<b>Polyoma</b>					
Polyoma purified virus	MFI > 3.750	-	-	-	-
<b>PVM</b>					
PVM purified virus	MFI > 2.500	-	-	-	-
<b>REO3</b>					
REO3 purified virus	MFI > 4.900	-	-	-	-
<b>TMEV</b>					
TMEV purified virus	MFI > 2.250	-	-	-	-
wt TMEV purified virus	MFI > 3.500	-	-	-	-
<b>Sendai</b>					
Sendai purified virus	MFI > 3.750	-	-	-	-

**NS1<sup>1</sup>:** NS1 protein is highly conserved among rodent parvoviruses and thus serves as a generic assay for parvovirus seroconversion.

**Legend:** + = positive - = negative blank = test not performed EQ = equivocal HE = hemolysis precluded testing I = insufficient W = weak positive WB = Western Blot confirmatory analysis pending NS = non-specific reactivity N = normal IgG L = less than normal IgG Positive MFI results are reported as "+" followed by a number from 1 to 33 in thousands rounded off to the nearest thousand.