

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 19065-2021

Received Date: 6/18/2021

Completed: 6/22/2021

**Submitted By**

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**Specimen Description**

Species: mouse

Description: Pelt Swab

Number of Specimens/Animals: 4

Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species
W113 Swab	Bryda	W113	mouse
W114 Swab	Bryda	W114	mouse
W116 GM 1 swab (1)	Bryda	W116	mouse
W116 GM 4 Swab (2)	Bryda	W116	mouse

**Services/Tests Performed:** Pinworm and Fur Mite Panel (1-4)

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

**General Comments:** MMRRC June 2021 Quarterly Pin Worm/Fur Mite Testing : AMD

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

## PCR EVALUATION

pelt swab	W113 Swab	W114 Swab
<i>Aspiculuris tetraptera</i>	-	-
<i>Syphacia muris</i>	-	-
<i>Syphacia obvelata</i>	-	-
<i>Myocoptes</i>	-	-
<i>Radfordia/Myobia</i>	-	-

pelt swab	W116 GM 1 swab (1)	W116 GM 4 Swab (2)
<i>Aspiculuris tetraptera</i>	-	-
<i>Syphacia muris</i>	-	-
<i>Syphacia obvelata</i>	-	-
<i>Myocoptes</i>	-	-
<i>Radfordia/Myobia</i>	-	-

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

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IDEXX BioAnalytics Case # 18620-2021

Received Date: 6/16/2021

Completed: 6/23/2021

Submitted By

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Specimen Description

Species: mouse  
Breed/Strain: CR ATH HE  
Description: Whole Animal  
Number of Specimens/Animals: 11  
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	3/15/2021
116-B	Franklin	W116	mouse	CR ATH HE	F	2	3/15/2021
116-C	Franklin	W116	mouse	CR ATH HE	F	3	3/15/2021
116-D	Franklin/Bryda	W116	mouse	CR ATH HE	F	4	3/15/2021
113-A	Bryda	W113	mouse	CR ATH HE	F	2	3/15/2021
113-B	Bryda	W113	mouse	CR ATH HE	F	3	3/15/2021
113-C	Bryda	W113	mouse	CR ATH HE	F	4	3/15/2021
113-D	Bryda	W113	mouse	CR ATH HE	F	5	3/15/2021
113-E	Bryda	W113	mouse	CR ATH HE	F	6	3/15/2021
114-A	Bryda	W114	mouse	CR ATH HE	F	4	3/15/2021
114-B	Bryda	W114	mouse	CR ATH HE	F	5	3/15/2021

Services/Tests Performed: MU MMRRC Mouse Quarterly Sentinel and Rederivation Surrogate Profile (1-11)

**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 hinzii*, *Citrobacter rodentium*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** Discovery Ridge - 2021 Q2 '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	113-A	113-B	113-C	113-D	113-E
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

	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	-	-

	114-A	114-B
Mouse IgG	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	113-A	113-B	113-C	113-D	113-E
<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	114-A
<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	113-A	113-B	113-C	113-D	113-E
<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	114-A
<i>Mycoplasma pulmonis</i>	-
<i>Streptococcus</i> sp. beta hemolytic Group A	-
<i>Streptococcus</i> sp. beta hemolytic Group B	-

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

feces	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	114-B
<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	-

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

## PARASITOLOGY

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

	114-A	114-B
parasites	-	-

## MICROBIOLOGY

Specimen/Source: cecum

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

Specimen/Source: cecum

Isolate	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	113-A	113-B	113-C	113-D	113-E
<i>Bordetella hinzii</i>	-	-	-	-	-	-	-	-	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-	-	-	-	-	-	-	-
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-

Specimen/Source: oral swab

Isolate	114-A	114-B
<i>Bordetella hinzii</i>	-	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-
<i>Streptococcus pneumoniae</i>	-	-

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



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Received Date: 6/16/2021

Completed: 6/23/2021

SEROLOGY DETAILS

	Baseline	116-A	116-B	116-C	116-D	113-A	113-B	113-C	113-D	113-E
<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	113-A	113-B	113-C	113-D	113-E
<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	-	-	-	-	-	-	-	-	-
RTV purified virus	MFI > 2.750	-	-	-	-	-	-	-	-	-
<b>Sendai</b>										
Sendai purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-

	Baseline	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	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	-	-
RTV purified virus	MFI > 2.750	-	-
<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.