

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 119827-2022

Received Date: 7/15/2022

Completed: 7/21/2022

**Submitted By**

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**Referred By**

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**Specimen Description**

Species: mouse

Description: Feces; Pelt Swab

Number of Specimens/Animals: 3

Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species
W113 mouse fur mite swab and pin worm fecal	Bryda	W113	mouse
W114 mouse fur mite swab and pin worm fecal	Bryda	W114	mouse
W116 mouse fur mite swab and pin worm fecal	Bryda	W116	mouse

**Services/Tests Performed:** Pinworm and Fur Mite Panel (1-3)

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

**General Comments:** Quarterly mouse pin worm and fur mite testing; W113, W114, W116; n-3 pooled fecal samples;n=3 pooled fur mite swab samples. AOB

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

## PCR EVALUATION

feces	W113 mouse fur mite swab and pin worm fecal
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W114 mouse fur mite swab and pin worm fecal
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W116 mouse fur mite swab and pin worm fecal
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

pelt swab	W113 mouse fur mite swab and pin worm fecal
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W114 mouse fur mite swab and pin worm fecal
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W116 mouse fur mite swab and pin worm fecal
<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 # 116748-2022

Received Date: 7/13/2022

Completed: 7/18/2022

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	3/14/2022
116-B	Franklin	W116	mouse	CR ATH HE	F	2	3/14/2022
116-C	Franklin	W116	mouse	CR ATH HE	F	3	3/14/2022
116-D	Franklin/Bryda	W116	mouse	CR ATH HE	F	4	3/14/2022
113-A	Bryda	W113	mouse	CR ATH HE	F	2	3/14/2022
113-B	Bryda	W113	mouse	CR ATH HE	F	3	3/14/2022
113-C	Bryda	W113	mouse	CR ATH HE	F	4	3/14/2022
113-D	Bryda	W113	mouse	CR ATH HE	F	5	3/14/2022
113-E	Bryda	W113	mouse	CR ATH HE	F	6	3/14/2022
114-A	Bryda	W114	mouse	CR ATH HE	F	4	3/14/2022
114-B	Bryda	W114	mouse	CR ATH HE	F	5	3/14/2022

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 - 2022 Q2 'A' room mouse sentinel necropsies

**Summary:** Positive results were found. 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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IDEXX BioAnalytics Case # 116748-2022

Received Date: 7/13/2022

Completed: 7/18/2022

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.