

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 116509-2024

Received Date: 6/20/2024

Version # 1

Report Date: 6/24/2024

Submitted By

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Referred By

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Specimen Description

Species: mouse
Description: Feces; Pelt Swab
Number of Specimens/Animals: 10
Building/Facility: Discovery Ridge

Purchase Order #: FEX14

Client ID	Investigator	Room #	Species
W113 Mouse Pinworm Fecal Rack 2-4A	Amos-Landgraf	W113	mouse
W113 Mouse Pinworm Fecal Rack 4B-6	Amos-Landgraf	W113	mouse
W116 Mouse Pinworm Fecal 1	Amos-Landgraf	W116	mouse
W116 Mouse Pinworm Fecal 2	Amos-Landgraf	W116	mouse
W116 Mouse Pinworm Fecal 3	Amos-Landgraf	W116	mouse
W113 Mouse Fur Mite Swab Rack 2-4A	Amos-Landgraf	W113	mouse
W113 Mouse Fur Mite Swab Rack 4B-6	Amos-Landgraf	W113	mouse
W116 Mouse Fur Mite Swab 1	Amos-Landgraf	W116	mouse
W116 Mouse Fur Mite Swab 2	Amos-Landgraf	W116	mouse
W116 Mouse Fur Mite Swab 3	Amos-Landgraf	W116	mouse

Services/Tests Performed: Pinworms (1-5); Fur Mite (6-10)

PCR evaluation for: *Aspicularis 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 MMRRC-MU, 6/20/2024, AOB

Summary: All test results were negative.

PCR EVALUATION

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

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

feces	W116 Mouse P inworm Fecal 1
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W116 Mouse P inworm Fecal 2
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W116 Mouse P inworm Fecal 3
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

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

pelt swab	W113 Mouse F ur Mite Swab Rack 4B-6
<i>Myocoptes</i>	-

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

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

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

pelt swab	W116 Mouse Fur Mite Swab 3
<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 # 116122-2024

Received Date: 6/20/2024

Version # 1

Report Date: 6/28/2024

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	Amos-Landgraf	W116	mouse	CR ATH HE	F	1	3/18/2024
116-B	Amos-Landgraf	W116	mouse	CR ATH HE	F	2	3/18/2024
116-C	Amos-Landgraf	W116	mouse	CR ATH HE	F	3	3/18/2024
116-D	Amos-Landgraf	W116	mouse	CR ATH HE	F	4	3/18/2024
116-E	Amos-Landgraf	W116	mouse	CR ATH HE	F	5	3/18/2024
116-F	Amos-Landgraf	W116	mouse	CR ATH HE	F	6	3/18/2024
113-A	Amos-Landgraf	W113	mouse	CR ATH HE	F	2	3/18/2024
113-B	Amos-Landgraf	W113	mouse	CR ATH HE	F	3	3/18/2024
113-C	Amos-Landgraf	W113	mouse	CR ATH HE	F	4	3/18/2024
113-D	Amos-Landgraf	W113	mouse	CR ATH HE	F	5	3/18/2024
113-E	Amos-Landgraf	W113	mouse	CR ATH HE	F	6	3/18/2024

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 pseudohinzii*, *Citrobacter rodentium*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Rodentibacter heylii*, *Rodentibacter pneumotropicus*, *Salmonella enterica*, *Streptococcus pneumoniae*

General Comments: Discovery Ridge - 2024 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	116-E	116-F	113-A	113-B	113-C	113-D
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	N

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

	113-E
Mouse IgG	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	113-D
<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-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>	-

oral swab	116-A	116-B	116-C	116-D	116-E	116-F	113-A	113-B	113-C	113-D
<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-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	-

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	113-D
parasites	-	-	-	-	-	-	-	-	-	-

	113-E
parasites	-

MICROBIOLOGY

Source/Specimen: cecum

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

Source/Specimen: cecum

Isolate	113-E
<i>Citrobacter rodentium</i>	-
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
<i>Salmonella enterica</i>	-

Source/Specimen: oral swab

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

Source/Specimen: oral swab

Isolate	113-E
<i>Bordetella pseudohinzii</i>	-
<i>Rodentibacter heylii</i>	-
<i>Rodentibacter pneumotropicus</i>	-
<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 # 116122-2024

Received Date: 6/20/2024

Version # 1

Report Date: 6/28/2024

SEROLOGY DETAILS

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

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

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

	Baseline	113-E
Polyoma purified virus	MFI > 3.750	-
PVM		
PVM purified virus	MFI > 2.500	-
REO3		
REO3 purified virus	MFI > 4.900	-
TMEV		
TMEV purified virus	MFI > 2.250	-
wt TMEV purified virus	MFI > 3.500	-
Sendai		
Sendai purified virus	MFI > 3.750	-

NS1¹: 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.