

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 134038-2024

Received Date: 12/18/2024

Version # 1

Report Date: 12/23/2024

Submitted By

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Referred By

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Specimen Description

Species: mouse
Description: Feces; Pelt Swab
Number of Specimens/Animals: 5
Building/Facility: Discovery Ridge

Purchase Order #: FEX14

Client ID	Investigator	Room #	Species	Sex
W112 Mouse Pinworm Fecal/Fur Mite Swab rack 1-3	Amos-Landgraf	W112	mouse	M/F
W112 Mouse Pinworm Fecal/Fur Mite Swab rack 4-5	Amos-Landgraf	W112	mouse	M/F
W116 Mouse Pinworm fecal/Fur Mite Swab GM-1	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Pinworm fecal/Fur Mite Swab GM-4	Amos-Landgraf	W116	mouse	M/F
W116 Mouse Pinworm fecal/Fur Mite Swab 3	Amos-Landgraf	W116	mouse	M/F

Services/Tests Performed: Pinworm and Fur Mite Panel (1-5)

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 (W112 & W116) at the MMRRC-MU, 12/18/2024, AOB

Summary: All test results were negative.

PCR EVALUATION

feces	W112 Mouse P inworm Fecal/ Fur Mite Swab rack 1-3	W112 Mouse P inworm Fecal/ Fur Mite Swab rack 4-5	W116 Mouse P inworm fecal/F ur Mite Swab GM-1	W116 Mouse P inworm fecal/F ur Mite Swab GM-4	W116 Mouse P inworm fecal/F ur Mite Swab 3
<i>Aspicularis tetraptera</i>	-	-	-	-	-
<i>Syphacia muris</i>	-	-	-	-	-
<i>Syphacia obvelata</i>	-	-	-	-	-

pelt swab	W112 Mouse P inworm Fecal/ Fur Mite Swab rack 1-3	W112 Mouse P inworm Fecal/ Fur Mite Swab rack 4-5	W116 Mouse P inworm fecal/F ur Mite Swab GM-1	W116 Mouse P inworm fecal/F ur Mite Swab GM-4	W116 Mouse P inworm fecal/F ur 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 # 133786-2024

Received Date: 12/18/2024

Version # 1

Report Date: 12/30/2024

SEROLOGY DETAILS

	Baseline	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
MTV											
MTV	MFI > 3.000	-	-	-	-	-	-	-	-	-	-
<i>Filobacterium rodentium</i>											
<i>Filobacterium rodentium</i> purified bacteria	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
<i>Encephalitozoon cuniculi</i>											
<i>E. cuniculi</i> purified antigen	MFI > 1.200	-	-	-	-	-	-	-	-	-	-
Ectromelia											
Ectromelia purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
EDIM											
EDIM purified virus	MFI > 4.000	-	-	-	-	-	-	-	-	-	-
EDIM VP6 recombinant	MFI > 2.500	-	-	-	-	-	-	-	-	-	-
Hantaan											
Hantaan NP	MFI > 4.000	-	-	-	-	-	-	-	-	-	-
K virus											
K purified virus	MFI > 4.500	-	-	-	-	-	-	-	-	-	-
LCMV											
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-	-	-	-
LDEV											
LDEV	MFI > 4.500	-	-	-	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>											
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-	-	-	-	-	-	-	-
MAV1											
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
MAV2											
MAV2 purified virus	MFI > 4.500	-	-	-	-	-	-	-	-	-	-
MCMV											
MCMV purified virus	MFI > 3.500	-	-	-	-	-	-	-	-	-	-

	Baseline	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
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	-	-	-	-	-	-	-	-	-	-
<i>Pneumocystis murina</i>											
<i>P. murina</i>	MFI > 0.750	-	-	-	-	-	-	-	-	-	-
Polyoma											
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	-	-	-	-	-	-	-	-	-	-
<i>Clostridium piliforme</i>											
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	-	-	-	-	-	-	-	-

	Baseline	116-F
MTV		
MTV	MFI > 3.000	-
<i>Filobacterium rodentium</i>		
<i>Filobacterium rodentium</i> purified bacteria	MFI > 3.750	-
<i>Encephalitozoon cuniculi</i>		
<i>E. cuniculi</i> purified antigen	MFI > 1.200	-
Ectromelia		
Ectromelia purified virus	MFI > 2.000	-
EDIM		
EDIM purified virus	MFI > 4.000	-

	Baseline	116-F
EDIM VP6 recombinant	MFI > 2.500	-
Hantaan		
Hantaan NP	MFI > 4.000	-
K virus		
K purified virus	MFI > 4.500	-
LCMV		
LCMV recombinant	MFI > 3.000	-
LDEV		
LDEV	MFI > 4.500	-
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	-
MCMV		
MCMV purified virus	MFI > 3.500	-
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		
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	-

	Baseline	116-F
Sendai		
Sendai purified virus	MFI > 3.750	-
<i>Clostridium piliforme</i>		
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-

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.

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IDEXX BioAnalytics Case # 133786-2024

Received Date: 12/18/2024

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Report Date: 12/30/2024

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

Purchase Order #: 615215

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
112-A	Davis	W112	mouse	CR ATH HE	F	1	9/16/2024
112-B	Davis	W112	mouse	CR ATH HE	F	2	9/16/2024
112-C	Davis	W112	mouse	CR ATH HE	F	3	9/16/2024
112-D	Davis	W112	mouse	CR ATH HE	F	4	9/16/2024
112-E	Davis	W112	mouse	CR ATH HE	F	5	9/16/2024
116-A	Amos-Landgraf	W116	mouse	CR ATH HE	F	1	9/16/2024
116-B	Amos-Landgraf	W116	mouse	CR ATH HE	F	2	9/16/2024
116-C	Amos-Landgraf	W116	mouse	CR ATH HE	F	3	9/16/2024
116-D	Amos-Landgraf	W116	mouse	CR ATH HE	F	4	9/16/2024
116-E	Amos-Landgraf	W116	mouse	CR ATH HE	F	5	9/16/2024
116-F	Amos-Landgraf	W116	mouse	CR ATH HE	F	6	9/16/2024

Services/Tests Performed: MU MMRRC Mouse Annual Sentinel Profile (1-11)

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, *Pneumocystis murina*, Ectromelia, EDIM, Hantaan, K virus, LCMV, LDEV, MAV1, MAV2, MCMV, MHV, MNV, MPV, MTV, MVM, Polyoma, PVM, REO3, Sendai, TMEV, *Encephalitozoon cuniculi*, *Filobacterium rodentium*

PCR evaluation for: *Cryptosporidium* spp., *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Mycoplasma pulmonis*, *Streptobacillus moniliformis*, *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 bronchiseptica*, *Bordetella pseudohinzii*, *Citrobacter rodentium*, *Corynebacterium bovis*, *Corynebacterium kutscheri*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Pasteurella multocida*, *Rodentibacter heylii*, *Rodentibacter pneumotropicus*, *Salmonella enterica*, *Streptococcus pneumoniae*

General Comments: Discovery Ridge - 2024 Q4 '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

	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
MTV	-	-	-	-	-	-	-	-	-	-
<i>Filobacterium rodentium</i>	-	-	-	-	-	-	-	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-	-	-	-	-	-	-	-
Ectromelia	-	-	-	-	-	-	-	-	-	-
EDIM	-	-	-	-	-	-	-	-	-	-
Hantaan	-	-	-	-	-	-	-	-	-	-
K virus	-	-	-	-	-	-	-	-	-	-
LCMV	-	-	-	-	-	-	-	-	-	-
LDEV	-	-	-	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-	-
MAV1	-	-	-	-	-	-	-	-	-	-
MAV2	-	-	-	-	-	-	-	-	-	-
MCMV	-	-	-	-	-	-	-	-	-	-
MHV	-	-	-	-	-	-	-	-	-	-
MNV	-	-	-	-	-	-	-	-	-	-
MPV	-	-	-	-	-	-	-	-	-	-
MVM	-	-	-	-	-	-	-	-	-	-
<i>Pneumocystis murina</i>	-	-	-	-	-	-	-	-	-	-
Polyoma	-	-	-	-	-	-	-	-	-	-
PVM	-	-	-	-	-	-	-	-	-	-
REO3	-	-	-	-	-	-	-	-	-	-
TMEV	-	-	-	-	-	-	-	-	-	-
Sendai	-	-	-	-	-	-	-	-	-	-
<i>Clostridium piliforme</i>	-	-	-	-	-	-	-	-	-	-
Mouse IgG	N	N	N	N	N	N	N	N	N	N

	116-F
MTV	-
<i>Filobacterium rodentium</i>	-
<i>Encephalitozoon cuniculi</i>	-
Ectromelia	-
EDIM	-
Hantaan	-
K virus	-
LCMV	-

	116-F
LDEV	-
<i>Mycoplasma pulmonis</i>	-
MAV1	-
MAV2	-
MCMV	-
MHV	-
MNV	-
MPV	-
MVM	-
<i>Pneumocystis murina</i>	-
Polyoma	-
PVM	-
REO3	-
TMEV	-
Sendai	-
<i>Clostridium piliforme</i>	-
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	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
<i>Cryptosporidium</i> spp.	-	-	-	-	-	-	-	-	-	-
<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	116-F
<i>Cryptosporidium</i> spp.	-
<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	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-	-
<i>Streptobacillus moniliformis</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	116-F
<i>Mycoplasma pulmonis</i>	-
<i>Streptobacillus moniliformis</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

	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
parasites	-	-	-	-	-	-	-	-	-	-

	116-F
parasites	-

MICROBIOLOGY

Source/Specimen: cecum

Isolate	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
<i>Citrobacter rodentium</i>	-	-	-	-	-	-	-	-	-	-
<i>Klebsiella oxytoca</i>	-	-	-	-	-	-	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-	-	-	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-	-	-	-	-	-	-

Source/Specimen: cecum

Isolate	116-F
<i>Citrobacter rodentium</i>	-

Isolate	116-F
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
<i>Salmonella enterica</i>	-

Source/Specimen: oral swab

Isolate	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
<i>Bordetella bronchiseptica</i>	-	-	-	-	-	-	-	-	-	-
<i>Bordetella pseudohinzii</i>	-	-	-	-	-	-	-	-	-	-
<i>Corynebacterium kutscheri</i>	-	-	-	-	-	-	-	-	-	-
<i>Pasteurella multocida</i>	-	-	-	-	-	-	-	-	-	-
<i>Rodentibacter heyltii</i>	-	-	-	-	-	-	-	-	-	-
<i>Rodentibacter pneumotropicus</i>	-	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-	-

Source/Specimen: oral swab

Isolate	116-F
<i>Bordetella bronchiseptica</i>	-
<i>Bordetella pseudohinzii</i>	-
<i>Corynebacterium kutscheri</i>	-
<i>Pasteurella multocida</i>	-
<i>Rodentibacter heyltii</i>	-
<i>Rodentibacter pneumotropicus</i>	-
<i>Streptococcus pneumoniae</i>	-

Source/Specimen: skin swab

Isolate	112-A	112-B	112-C	112-D	112-E	116-A	116-B	116-C	116-D	116-E
<i>Corynebacterium bovis</i>	-	-	-	-	-	-	-	-	-	-

Source/Specimen: skin swab

Isolate	116-F
<i>Corynebacterium bovis</i>	-

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