

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 108298-2023

Received Date: 3/23/2023

Completed: 3/24/2023

Submitted By

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Referred By

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Specimen Description

Species: rat
Description: Feces; Pelt Swab
Number of Specimens/Animals: 8
Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species	Sex	Rack
W112 Rat Pinworm Fecal Sample Rack 1-4a	Bryda	W112	rat	M/F	1-4a
W112 Rat Pinworm Fecal Sample Rack 4b-7	Bryda	W112	rat	M/F	4b-7
W113 Rat Pinworm Fecal Sample	Bryda	W113	rat	M/F	1
W114 Rat Pinworm Fecal Sample	Bryda	W114	rat	M/F	1-2
W112 Rat Fur Mite Pelt Swab Rack 1- 4a	Bryda	W112	rat	M/F	1-4a
W112 Rat Fur Mite Pelt Swab Rack 4b- 7	Bryda	W112	rat	M/F	4b-7
W113 Rat Fur Mite Pelt Swab	Bryda	W113	rat	M/F	1
W114 Rat Fur Mite Pelt Swab	Bryda	W114	rat	M/F	1-2

Services/Tests Performed: Pinworm and Fur Mite Panel (1-4); Pinworm and Fur Mite Panel (5-8)

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

General Comments: Quarterly Rat Pinworm and Fur Mite Testing for "A" Status Rooms (W112, W113, and W114) at the RRRC, 3/23/23 JP

Summary: All test results were negative.

PCR EVALUATION

feces	W112 Rat Pinworm Fecal Sample Rack 1-4a
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

feces	W112 Rat Pinworm Fecal Sample Rack 4b-7
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

feces	W113 Rat Pinworm Fecal Sample
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

feces	W114 Rat Pinworm Fecal Sample
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W112 Rat Fur Mite Pelt Swab Rack 1-4a
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W112 Rat Fur Mite Pelt Swab Rack 4b-7
<i>Aspiculuris tetraptera</i>	-

pelt swab	W112 Rat Fur Mite Pelt Swab Rack 4b-7
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 Rat Fur Mite Pelt Swab
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W114 Rat Fur Mite Pelt Swab
<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 inc = inconclusive NT or blank = no test performed sus = suspect wps = weak positive XX = Testing in progress

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IDEXX BioAnalytics Case # 107382-2023

Received Date: 3/22/2023

Completed: 3/28/2023

Submitted By

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Specimen Description

Species: rat

Breed/Strain: HET RNU

Description: Whole Animal

Number of Specimens/Animals: 10

Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
113-F	Bryda	W113	rat	HET RNU	F	1	12/12/2022
114-C	Bryda	W114	rat	HET RNU	F	1	12/12/2022
114-D	Bryda	W114	rat	HET RNU	F	2	12/12/2022
112-A	Bryda	W112	rat	HET RNU	F	1	12/12/2022
112-B	Bryda	W112	rat	HET RNU	F	2	12/12/2022
112-C	Bryda	W112	rat	HET RNU	F	3	12/12/2022
112-D	Bryda	W112	rat	HET RNU	F	4	12/12/2022
112-E	Bryda	W112	rat	HET RNU	F	5	12/12/2022
112-F	Bryda	W112	rat	HET RNU	F	6	12/12/2022
112-G	Bryda	W112	rat	HET RNU	F	7	12/12/2022

Services/Tests Performed: MU RRRC Rat Quarterly Sentinel and Rederivation Surrogate Profile (1-10)

Serologic evaluation for antibodies to: *Mycoplasma pulmonis*, *Pneumocystis carinii*, H1, KRV, LCMV, PVM, RCV/SDAV, REO3, RMV, RPV, RTV, Sendai

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, *Spiroplasma muris*, *Giardia muris*, large

intestinal flagellates and amoeba, pinworms and tapeworms

Microbiologic evaluation for: *Rodentibacter heylii*, *Rodentibacter pneumotropicus*, *Salmonella enterica*,
Streptococcus pneumoniae

General Comments: Discovery Ridge - 2023 Q1 'A' room rat 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

	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
LCMV	-	-	-	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-	-
<i>Pneumocystis carinii</i>	-	-	-	-	-	-	-	-	-	-
RPV	-	-	-	-	-	-	-	-	-	-
RMV	-	-	-	-	-	-	-	-	-	-
KRV	-	-	-	-	-	-	-	-	-	-
H1	-	-	-	-	-	-	-	-	-	-
PVM	-	-	-	-	-	-	-	-	-	-
RCV/SDAV	-	-	-	-	-	-	-	-	-	-
REO3	-	-	-	-	-	-	-	-	-	-
RTV	-	-	-	-	-	-	-	-	-	-
Sendai	-	-	-	-	-	-	-	-	-	-
Rat IgG	N	N	N	N	N	N	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	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
<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	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
<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	-	-	-	-	-	-	-	-	-	-

oral swab	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
<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

	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
parasites	-	-	-	-	-	-	-	-	-	-

MICROBIOLOGY

Specimen/Source: cecum

Isolate	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
<i>Salmonella enterica</i>	-	-	-	-	-	-	-	-	-	-

Specimen/Source: oral swab

Isolate	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
<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 # 107382-2023

Received Date: 3/22/2023

Completed: 3/28/2023

SEROLOGY DETAILS

	Baseline	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
LCMV											
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-	-	-	-
Mycoplasma pulmonis											
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-	-	-	-	-	-	-	-
Pneumocystis carinii											
<i>P. carinii</i>	MFI > 1.500	-	-	-	-	-	-	-	-	-	-
RPV											
RPV purified virus	MFI > 2.500	-	-	-	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
RMV											
RMV VP2 recombinant	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
KRV											
KRV purified virus	MFI > 4.250	-	-	-	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
H1											
H1 purified virus	MFI > 1.750	-	-	-	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
PVM											
PVM purified virus	MFI > 2.500	-	-	-	-	-	-	-	-	-	-
RCV/SDAV											
RCV/SDAV purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
RCV/SDAV Spike	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
REO3											
REO3 purified virus	MFI > 4.900	-	-	-	-	-	-	-	-	-	-
RTV											

If you have questions, please call our toll free number at 1-800-669-0825 or e-mail us at IdexxBioAnalytics@idexx.com.

	Baseline	113-F	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F	112-G
RTV purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
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.