

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 34951-2020

Received: 12/23/2020

Completed: 12/29/2020

Submitted By

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Specimen Description

Species: rat
Description: Pelt Swab
Number of Specimens/Animals: 4
Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species
W112 rat pin worm/ fur mite swab Racks 1-4A	Bryda	W112	rat
W112 pin worm / fur mite swab Racks 4B-7	Bryda	W112	rat
W113 rat pin worm/ fur mite swab	Bryda	W113	rat
W114 rat pin worm /fur mite swab	Bryda	W114	rat

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

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

General Comments: RRRC Quarterly rat pin worm /fur mite testing

Summary: All test results were negative.

PCR EVALUATION

pelt swab	W112 rat pin worm/ fur mite swab Racks 1-4A
Pinworms	-
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W112 pin worm / fur mite swab Racks 4B-7
Pinworms	-
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 rat pin worm/ fur mite swab
Pinworms	-
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W114 rat pin worm /fur mite swab
Pinworms	-
<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 # 33780-2020

Received: 12/16/2020

Completed: 12/22/2020

Submitted By

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Specimen Description

Species: rat
Breed/Strain: HET RNU
Description: Whole Animal
Number of Specimens/Animals: 11
Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
113-F	Bryda	W113	rat	HET RNU	F	1	9/14/2020
114-B	Bryda	W114	rat	HET RNU	F	1	9/14/2020
114-C	Bryda	W114	rat	HET RNU	F	2	9/14/2020
114-D	Bryda	W114	rat	HET RNU	F	3	9/14/2020
112-A	Bryda	W112	rat	HET RNU	F	1	9/14/2020
112-B	Bryda	W112	rat	HET RNU	F	2	9/14/2020
112-C	Bryda	W112	rat	HET RNU	F	3	9/14/2020
112-D	Bryda	W112	rat	HET RNU	F	4	9/14/2020
112-E	Bryda	W112	rat	HET RNU	F	5	9/14/2020
112-F	Bryda	W112	rat	HET RNU	F	6	9/14/2020
112-G	Bryda	W112	rat	HET RNU	F	7	9/14/2020

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

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, *Spironucleus muris*, *Giardia muris*, large intestinal flagellates and amoeba, pinworms and tapeworms

Microbiologic evaluation for: *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

General Comments: Discovery Ridge - 2020 Q4 '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-B	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F
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

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

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

	112-G
parasites	-

MICROBIOLOGY

Specimen/Source: cecum

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

Specimen/Source: cecum

Isolate	112-G
<i>Salmonella enterica</i>	-

Specimen/Source: oral swab

Isolate	113-F	114-B	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-	-	-	-	-	-	-	-	-
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-	-

Specimen/Source: oral swab

Isolate	112-G
<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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SEROLOGY DETAILS

	Baseline	113-F	114-B	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F
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 > 3.250	-	-	-	-	-	-	-	-	-	-
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											

	Baseline	113-F	114-B	114-C	114-D	112-A	112-B	112-C	112-D	112-E	112-F
RTV purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
Sendai											
Sendai purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-	-

	Baseline	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 > 3.250	-
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		
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.