

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 28846-2021

Received Date: 9/22/2021

Completed: 9/24/2021

**Submitted By**

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**Referred By**

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**Specimen Description**

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

Client ID	Investigator	Room #	Species	Sex
W112 Pelt swab and fecal pool sample racks 1-4a	Bryda	W112	rat	M/F
W112 Pelt swab and fecal pool sample racks 4b-7	Bryda	W112	rat	M/F
W113 Pelt swab and fecal pool sample	Bryda	W113	rat	M/F
W114 Pelt swab and fecal pool sample	Bryda	W114	rat	M/F

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

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

**General Comments:** Quarterly pinworm and furmite testing;W112, W113, W114;rats;n=4 pulled fecal samples; n=4 pelt swab samples; AMD

**Summary:** Please see the report for details.

## PCR EVALUATION

feces	W112 Pelt swab and fecal pool sample racks 1-4a
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W112 Pelt swab and fecal pool sample racks 4b-7
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W113 Pelt swab and fecal pool sample
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W114 Pelt swab and fecal pool sample
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

pelt swab	W112 Pelt swab and fecal pool sample racks 1-4a
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W112 Pelt swab and fecal pool sample racks 4b-7
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 Pelt swab and fecal pool sample
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W114 Pelt swab and fecal pool sample
<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 # 28331-2021

Received Date: 9/22/2021

Completed: 9/28/2021

Submitted By

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University of Missouri-RRRC

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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	6/14/2021
114-C	Bryda	W114	rat	HET RNU	F	1	6/14/2021
114-D	Bryda	W114	rat	HET RNU	F	2	6/14/2021
114-E	Bryda	W114	rat	HET RNU	F	3	6/14/2021
112-A	Bryda	W112	rat	HET RNU	F	1	6/14/2021
112-B	Bryda	W112	rat	HET RNU	F	2	6/14/2021
112-C	Bryda	W112	rat	HET RNU	F	3	6/14/2021
112-D	Bryda	W112	rat	HET RNU	F	4	6/14/2021
112-E	Bryda	W112	rat	HET RNU	F	5	6/14/2021
112-F	Bryda	W112	rat	HET RNU	F	6	6/14/2021
112-G	Bryda	W112	rat	HET RNU	F	7	6/14/2021

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 - 2021 Q3 '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	114-E	112-A	112-B	112-C	112-D	112-E
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

	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

**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	114-E	112-A	112-B	112-C	112-D	112-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	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	114-E	112-A	112-B	112-C	112-D	112-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	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	-	-
<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-C	114-D	114-E	112-A	112-B	112-C	112-D	112-E
parasites	-	-	-	-	-	-	-	-	-

	112-F	112-G
parasites	-	-

## MICROBIOLOGY

Specimen/Source: cecum

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

Specimen/Source: cecum

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

Specimen/Source: oral swab

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

Specimen/Source: oral swab

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

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

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