

**FINAL REPORT OF LABORATORY EXAMINATION**

4011 Discovery Drive, Columbia, MO 65201

1-800-669-0825 1-573-499-5700

[idxxbioanalytics@idexx.com](mailto:idxxbioanalytics@idexx.com)

[www.idexxbioanalytics.com](http://www.idexxbioanalytics.com)

**IDEXX BioAnalytics Case # 116510-2024**

**Received Date: 6/20/2024**

**Version # 1**

**Report Date: 6/24/2024**

**Submitted By**

Resource Center Animals-RRRC Resource Center  
Animals-RRRC  
University of Missouri-RRRC  
Columbia, MO 65201

Phone: 573-884-7970  
Email: [brydae@missouri.edu](mailto:brydae@missouri.edu); [oneilla@missouri.edu](mailto:oneilla@missouri.edu); [oconnore@missouri.edu](mailto:oconnore@missouri.edu); [RRRC@missouri.edu](mailto:RRRC@missouri.edu); [kavb3v@missouri.edu](mailto:kavb3v@missouri.edu)

**Referred By**

Craig Franklin  
University of Missouri-Franklin  
Veterinary Pathobiology  
4011 Discovery Drive  
Columbia, MO 65201

Fax: 573-884-7521  
Email: [FranklinC@missouri.edu](mailto:FranklinC@missouri.edu)

**Specimen Description**

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

**Purchase Order #: FEU22**

Client ID	Investigator	Room #	Species
W112 Rat Pinworm Fecal Rack 1-4A	Bryda	W112	rat
W112 Rat Pinworm Fecal Rack 4B-7	Bryda	W112	rat
W114 Rat Pinworm Fecal	Bryda	W114	rat
W113 Rat Pinworm Fecal	Bryda	W113	rat
W112 Rat Fur Mite Swab Rack 1-4A	Bryda	W112	rat
W112 Rat Fur Mite Swab Rack 4B-7	Bryda	W112	rat
W113 Rat Fur Mite Swab	Bryda	W113	rat
W114 Rat Fur Mite Swab	Bryda	W114	rat

**Services/Tests Performed:** Pinworms (1-4); Fur Mite (5-8)

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

**General Comments:** Quarterly Rat Pinworm and Fur Mite Testing for "A" status rooms (W112, W113 & W114) at the RRRC, 6/20/2024, AOB.

**Summary:** All test results were negative.

**PCR EVALUATION**

feces	W112 Rat Pinworm Fecal Rack 1-4A
<i>Aspicularis tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W112 Rat Pinworm Fecal Rack 4B-7
<i>Aspicularis tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W114 Rat Pinworm Fecal
<i>Aspicularis tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W113 Rat Pinworm Fecal
<i>Aspicularis tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

pelt swab	W112 Rat Fur Mite Swab Rack 1-4A
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W112 Rat Fur Mite Swab Rack 4B-7
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 Rat Fur Mite Swab
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W114 Rat Fur Mite Swab
<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 # 116123-2024**

**Received Date: 6/20/2024**

**Version # 1**

**Report Date: 6/28/2024**

**Submitted By**

Justin Wilson (RRRC)  
University of Missouri-RRRC  
University of Missouri-RRRC  
Columbia, MO 65201

Phone: 573-884-2524  
Email: wilsonjus@missouri.edu;KorteS@missouri.edu;conore@missouri.edu;FranklinC@missouri.edu;oneill-blaira@missouri.edu

**Specimen Description**

Species: rat  
Breed/Strain: HET RNU  
Description: Whole Animal  
Number of Specimens/Animals: 13  
Building/Facility: Discovery Ridge

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
113-F	Bryda	W113	rat	HET RNU	F	1	3/18/2024
114-A	Bryda	W114	rat	HET RNU	F	1	3/18/2024
114-B	Bryda	W114	rat	HET RNU	F	2	3/18/2024
114-C	Bryda	W114	rat	HET RNU	F	3	3/18/2024
114-D	Bryda	W114	rat	HET RNU	F	4	3/18/2024
114-E	Bryda	W114	rat	HET RNU	F	5	3/18/2024
112-A	Bryda	W112	rat	HET RNU	F	1	3/18/2024
112-B	Bryda	W112	rat	HET RNU	F	2	3/18/2024
112-C	Bryda	W112	rat	HET RNU	F	3	3/18/2024
112-D	Bryda	W112	rat	HET RNU	F	4	3/18/2024
112-E	Bryda	W112	rat	HET RNU	F	5	3/18/2024
112-F	Bryda	W112	rat	HET RNU	F	6	3/18/2024
112-G	Bryda	W112	rat	HET RNU	F	7	3/18/2024

**Services/Tests Performed:** MU RRRC Rat Quarterly Sentinel and Rederivation Surrogate Profile (1-13)

**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:** *Rodentibacter heylii*, *Rodentibacter pneumotropicus*, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** Discovery Ridge - 2024 Q2 '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-A	114-B	114-C	114-D	114-E	112-A	112-B	112-C	112-D
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-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

**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-A	114-B	114-C	114-D	114-E	112-A	112-B	112-C	112-D
<i>Helicobacter</i> spp.	-	-	-	-	-	-	-	-	-	-
<i>Helicobacter bilis</i>	-	-	-	-	-	-	-	-	-	-

feces	113-F	114-A	114-B	114-C	114-D	114-E	112-A	112-B	112-C	112-D
<i>Helicobacter ganmani</i>	-	-	-	-	-	-	-	-	-	-
<i>Helicobacter hepaticus</i>	-	-	-	-	-	-	-	-	-	-
<i>Helicobacter mastomyrinus</i>	-	-	-	-	-	-	-	-	-	-
<i>Helicobacter rodentium</i>	-	-	-	-	-	-	-	-	-	-
<i>Helicobacter typhlonius</i>	-	-	-	-	-	-	-	-	-	-

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

	112-E	112-F	112-G
parasites	-	-	-

## MICROBIOLOGY

Source/Specimen: cecum

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

Source/Specimen: cecum

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

Source/Specimen: oral swab

Isolate	113-F	114-A	114-B	114-C	114-D	114-E	112-A	112-B	112-C	112-D
<i>Rodentibacter heylII</i>	-	-	-	-	-	-	-	-	-	-
<i>Rodentibacter pneumotropicus</i>	-	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-	-

Source/Specimen: oral swab

Isolate	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 # 116123-2024

Received Date: 6/20/2024

Version # 1

Report Date: 6/28/2024

SEROLOGY DETAILS

	Baseline	113-F	114-A	114-B	114-C	114-D	114-E	112-A	112-B	112-C	112-D
<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	-	-	-	-	-	-	-	-	-	-

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

	Baseline	112-E	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.