

**FINAL REPORT OF LABORATORY EXAMINATION**

4011 Discovery Drive, Columbia, MO 65201

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**IDEXX BioAnalytics Case # 134039-2024**

**Received Date: 12/18/2024**

**Version # 1**

**Report Date: 12/23/2024**

**Submitted By**

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**Specimen Description**

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

**Purchase Order #: FEU22**

Client ID	Investigator	Room #	Species	Sex
W112 rat fur mite swab/pinworm fecal racks 6-7A	Bryda	W112	rat	M/F
W112 rat fur mite swab/pinworm fecal racks 7B-8	Bryda	W112	rat	M/F
W113 rat fur mite swab/pinworm fecal racks 1-3	Bryda	W113	rat	M/F
W113 rat fur mite swab/pinworm fecal racks 4-6	Bryda	W113	rat	M/F
W114 rat fur mite swab/pinworm fecal	Bryda	W114	rat	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 Rat Pinworm and Fur Mite Testing for "A" status rooms (W112, W113 & W114) at the RRRC, 12/18/2024, AOB

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

**PCR EVALUATION**

feces	W112 rat fur mite swab/pinworm fecal racks 6-7A	W112 rat fur mite swab/pinworm fecal racks 7B-8	W113 rat fur mite swab/pinworm fecal racks 1-3	W113 rat fur mite swab/pinworm fecal racks 4-6	W114 rat fur mite swab/pinworm fecal
<i>Aspiculuris tetraptera</i>	-	-	-	-	-
<i>Syphacia muris</i>	-	-	-	-	-
<i>Syphacia obvelata</i>	-	-	-	-	-

pelt swab	W112 rat fur mite swab/pinworm fecal racks 6-7A	W112 rat fur mite swab/pinworm fecal racks 7B-8	W113 rat fur mite swab/pinworm fecal racks 1-3	W113 rat fur mite swab/pinworm fecal racks 4-6	W114 rat fur mite swab/pinworm fecal
<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 # 133787-2024

Received Date: 12/18/2024

Version # 1

Report Date: 12/30/2024

SEROLOGY DETAILS

	Baseline	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<b>Filobacterium rodentium</b>											
<i>Filobacterium rodentium</i> purified bacteria	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
<b>Encephalitozoon cuniculi</b>											
<i>E. cuniculi</i> purified antigen	MFI > 1.200	-	-	-	-	-	-	-	-	-	-
<b>IDIR</b>											
IDIR VP6 recombinant	MFI > 4.000	-	-	-	-	-	-	-	-	-	-
<b>Hantaan</b>											
Hantaan NP	MFI > 4.000	-	-	-	-	-	-	-	-	-	-
<b>LCMV</b>											
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-	-	-	-
<b>Mycoplasma pulmonis</b>											
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-	-	-	-	-	-	-	-
<b>MAV1</b>											
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-	-
<b>MAV2</b>											
MAV2 purified virus	MFI > 3.500	-	-	-	-	-	-	-	-	-	-
<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	-	-	-	-	-	-	-	-	-	-

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

	Baseline	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<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	-	-	-	-	-	-	-	-	-	-
<b><i>Clostridium piliforme</i></b>											
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	-	-	-	-	-	-	-	-

	Baseline	114-B	114-C	114-D
<b><i>Filobacterium rodentium</i></b>				
<i>Filobacterium rodentium</i> purified bacteria	MFI > 3.750	-	-	-
<b><i>Encephalitozoon cuniculi</i></b>				
<i>E. cuniculi</i> purified antigen	MFI > 1.200	-	-	-
<b>IDIR</b>				
IDIR VP6 recombinant	MFI > 4.000	-	-	-
<b>Hantaan</b>				
Hantaan NP	MFI > 4.000	-	-	-
<b>LCMV</b>				
LCMV recombinant	MFI > 3.000	-	-	-
<b><i>Mycoplasma pulmonis</i></b>				
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-
<b>MAV1</b>				
MAV1 purified virus	MFI > 3.750	-	-	-
<b>MAV2</b>				
MAV2 purified virus	MFI > 3.500	-	-	-
<b><i>Pneumocystis carinii</i></b>				
<i>P. carinii</i>	MFI > 1.500	-	-	-
<b>RPV</b>				
RPV purified virus	MFI > 2.500	-	-	-

	Baseline	114-B	114-C	114-D
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	-	-	-
<b><i>Clostridium piliforme</i></b>				
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	-

**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.

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**IDEXX BioAnalytics Case # 133787-2024**

**Received Date: 12/18/2024**

**Version # 1**

**Report Date: 12/30/2024**

**Submitted By**

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**Specimen Description**

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

**Purchase Order #: 615215**

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
112-F	Davis	W112	rat	HET RNU	F	6	9/16/2024
112-G	Davis	W112	rat	HET RNU	F	7	9/16/2024
112-H	Davis	W112	rat	HET RNU	F	8	9/16/2024
113-A	Bryda	W113	rat	HET RNU	F	1	9/16/2024
113-B	Bryda	W113	rat	HET RNU	F	2	9/16/2024
113-C	Bryda	W113	rat	HET RNU	F	3	9/16/2024
113-D	Bryda	W113	rat	HET RNU	F	4	9/16/2024
113-E	Bryda	W113	rat	HET RNU	F	5	9/16/2024
113-F	Bryda	W113	rat	HET RNU	F	6	9/16/2024
114-A	Bryda	W114	rat	HET RNU	F	1	9/16/2024
114-B	Bryda	W114	rat	HET RNU	F	2	9/16/2024
114-C	Bryda	W114	rat	HET RNU	F	3	9/16/2024
114-D	Bryda	W114	rat	HET RNU	F	4	9/16/2024

**Services/Tests Performed:** MU RRRC Rat Annual Sentinel Profile (1-13)

**Serologic evaluation for antibodies to:** *Clostridium piliforme*, *Mycoplasma pulmonis*, *Pneumocystis carinii*, H1, Hantaan, IDIR, KRV, LCMV, MAV1, MAV2, PVM, RCV/SDAV, REO3, RMV, RPV, RTV, Sendai, *Encephalitozoon cuniculi*, *Filobacterium rodentium*

**PCR evaluation for:** *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*, *Corynebacterium kutscheri*, *Pasteurella multocida*,  
*Rodentibacter heylii*, *Rodentibacter pneumotropicus*, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** Discovery Ridge - 2024 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**

	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<i>Filobacterium rodentium</i>	-	-	-	-	-	-	-	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-	-	-	-	-	-	-	-
IDIR	-	-	-	-	-	-	-	-	-	-
Hantaan	-	-	-	-	-	-	-	-	-	-
LCMV	-	-	-	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-	-
MAV1	-	-	-	-	-	-	-	-	-	-
MAV2	-	-	-	-	-	-	-	-	-	-
<i>Pneumocystis carinii</i>	-	-	-	-	-	-	-	-	-	-
RPV	-	-	-	-	-	-	-	-	-	-
RMV	-	-	-	-	-	-	-	-	-	-
KRV	-	-	-	-	-	-	-	-	-	-
H1	-	-	-	-	-	-	-	-	-	-
PVM	-	-	-	-	-	-	-	-	-	-
RCV/SDAV	-	-	-	-	-	-	-	-	-	-
REO3	-	-	-	-	-	-	-	-	-	-
RTV	-	-	-	-	-	-	-	-	-	-
Sendai	-	-	-	-	-	-	-	-	-	-
<i>Clostridium piliforme</i>	-	-	-	-	-	-	-	-	-	-
Rat IgG	N	N	N	N	N	N	N	N	N	N

	114-B	114-C	114-D
<i>Filobacterium rodentium</i>	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-
IDIR	-	-	-
Hantaan	-	-	-
LCMV	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-
MAV1	-	-	-
MAV2	-	-	-
<i>Pneumocystis carinii</i>	-	-	-
RPV	-	-	-
RMV	-	-	-
KRV	-	-	-
H1	-	-	-



	114-B	114-C	114-D
<b>PVM</b>	-	-	-
<b>RCV/SDAV</b>	-	-	-
<b>REO3</b>	-	-	-
<b>RTV</b>	-	-	-
<b>Sendai</b>	-	-	-
<b><i>Clostridium piliforme</i></b>	-	-	-
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	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<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	114-B	114-C	114-D
<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-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<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	114-B	114-C	114-D

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

	114-B	114-C	114-D
parasites	-	-	-

## MICROBIOLOGY

Source/Specimen: cecum

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

Source/Specimen: cecum

Isolate	114-B	114-C	114-D
<i>Salmonella enterica</i>	-	-	-

Source/Specimen: oral swab

Isolate	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<i>Bordetella bronchiseptica</i>	-	-	-	-	-	-	-	-	-	-
<i>Corynebacterium kutscheri</i>	-	-	-	-	-	-	-	-	-	-
<i>Pasteurella multocida</i>	-	-	-	-	-	-	-	-	-	-
<i>Rodentibacter heylii</i>	-	-	-	-	-	-	-	-	-	-
<i>Rodentibacter pneumotropicus</i>	-	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-	-

Source/Specimen: oral swab

Isolate	114-B	114-C	114-D
<i>Bordetella bronchiseptica</i>	-	-	-
<i>Corynebacterium kutscheri</i>	-	-	-
<i>Pasteurella multocida</i>	-	-	-

Isolate	114-B	114-C	114-D
<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