

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioAnalytics Case # 107209-2025

Received Date: 3/20/2025

Version # 1

Report Date: 3/24/2025

Submitted By

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Referred By

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Specimen Description

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

Purchase Order #: FGB44

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.
3/20/2025, AOB.

Summary: All test results were negative.

PCR EVALUATION

feces	W112 rat fur mite swab/pinworm fecal racks 6-7A
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W112 rat fur mite swab/pinworm fecal racks 7B-8
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W113 rat fur mite swab/pinworm fecal racks 1-3
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	W113 rat fur mite swab/pinworm fecal racks 4-6
<i>Aspiculuris tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

feces	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
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W112 rat fur mite swab/pinworm fecal racks 7B-8
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 rat fur mite swab/pinworm fecal racks 1-3
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	W113 rat fur mite swab/pinworm fecal racks 4-6
<i>Myocoptes</i>	-
<i>Radfordia/Myobia</i>	-

pelt swab	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 # 106474-2025

Received Date: 3/19/2025

Version # 1

Report Date: 3/26/2025

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 #: 691609

Client ID	Investigator	Room #	Species	Strain /Breed	Sex	Rack	Date Placed
112-F	Davis	W112	rat	HET RNU	F	6	12/16/2024
112-G	Davis	W112	rat	HET RNU	F	7	12/16/2024
112-H	Davis	W112	rat	HET RNU	F	8	12/16/2024
113-A	Bryda	W113	rat	HET RNU	F	1	12/16/2024
113-B	Bryda	W113	rat	HET RNU	F	2	12/16/2024
113-C	Bryda	W113	rat	HET RNU	F	3	12/16/2024
113-D	Bryda	W113	rat	HET RNU	F	4	12/16/2024
113-E	Bryda	W113	rat	HET RNU	F	5	12/16/2024
113-F	Bryda	W113	rat	HET RNU	F	6	12/16/2024
114-A	Bryda	W114	rat	HET RNU	F	1	12/16/2024
114-B	Bryda	W114	rat	HET RNU	F	2	12/16/2024
114-C	Bryda	W114	rat	HET RNU	F	4	12/16/2024
114-D	Bryda	W114	rat	HET RNU	F	5	12/16/2024

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 - 2025 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

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

	114-B	114-C	114-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

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>	-	-	-	-	-	-	-	-	-	-

feces	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
<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>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>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>Rodentibacter heylii</i>	-	-	-	-	-	-	-	-	-	-
<i>Rodentibacter pneumotropicus</i>	-	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-	-

Source/Specimen: oral swab

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

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IDEXX BioAnalytics Case # 106474-2025

Received Date: 3/19/2025

Version # 1

Report Date: 3/26/2025

SEROLOGY DETAILS

	Baseline	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
LCMV											
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-	-	-	-
Mycoplasma pulmonis											
M. pulmonis purified bacteria	MFI > 4.250	-	-	-	-	-	-	-	-	-	-
Pneumocystis carinii											
P. carinii	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											
RTV purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-	-

	Baseline	112-F	112-G	112-H	113-A	113-B	113-C	113-D	113-E	113-F	114-A
Sendai											
Sendai purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-	-

	Baseline	114-B	114-C	114-D
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				
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.