

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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

idxxbioresearch@idexx.com www.idexxbioresearch.com

IDEXX BioResearch Case # 8277-2017

**Received: 3/8/2017
Completed: 3/14/2017**

Submitted By

Sentinels
University of Missouri-RCA
Columbia, MO 65201

Phone: 573-884-7970
Email: franklinc@missouri.edu; bethunec@missouri.edu;
RhoadesJN@missouri.edu; watermanjd@missouri.edu;
oneilla@missouri.edu

Specimen Description

Species: rat
Description: 7 female rats
Number of Specimens/Animals: 7
Building/Facility: Discovery Ridge
Area: W112

Client ID	Investigator	Room #	Strain /Breed	Sex	Rack
1	Bryda	W112	CD	F	1
2	Bryda	W112	CD	F	2
3	Bryda	W112	CD	F	3
4	Bryda	W112	CD	F	4
5	Bryda	W112	CD	F	5
6	Bryda	W112	CD	F	6
7	Bryda	W112	CD	F	7

Services/Tests Performed: Rederivation Necropsy Profile

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, CAR bacillus, H1, Hantaan, KRV, LCMV, MAV1, 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*, *Pneumocystis carinii*, *Streptobacillus moniliformis*

Parasitologic evaluation for: fur mites, mesostigmatid mites, lice, *Spironucleus muris*, *Giardia muris*, large intestinal flagellates and amoeba, pinworms and tapeworms

Microbiologic evaluation for: *Corynebacterium kutscheri*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Pasteurella multocida*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

General Comments: AO;Quarterly Sentinel testing for 12/2016 animals.

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

	1	2	3	4	5	6	7
CAR bacillus	-	-	-	-	-	-	-
Hantaan	-	-	-	-	-	-	-
LCMV	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-
MAV1	-	-	-	-	-	-	-
RPV	-	-	-	-	-	-	-
RMV	-	-	-	-	-	-	-
KRV	-	-	-	-	-	-	-
H1	-	-	-	-	-	-	-
PVM	-	-	-	-	-	-	-
RCV/SDAV	-	-	-	-	-	-	-
REO3	-	-	-	-	-	-	-
RTV	-	-	-	-	-	-	-
Sendai	-	-	-	-	-	-	-
<i>Clostridium piliforme</i>	-	-	-	-	-	-	-
Rat IgG	N	N	N	N	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	1	2	3	4	5	6	7
<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>	-	-	-	-	-	-	-

lung	1	2	3	4	5	6	7
<i>Pneumocystis carinii</i>	-	-	-	-	-	-	-

oral swab	1	2	3	4	5	6	7
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-
<i>Streptobacillus moniliformis</i>	-	-	-	-	-	-	-

Legend: + = positive - = negative id:id = pooled sample range id+id+id = non-range pooled sample NT or blank = no test performed wps = weak positive

PARASITOLOGY

	1	2	3	4	5	6	7
parasites	-	-	-	-	-	-	-

MICROBIOLOGY

Specimen/Source: cecum

Isolate	1	2	3	4	5	6	7
<i>Klebsiella oxytoca</i>	-	-	-	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-	-	-	-

Specimen/Source: nasopharynx

Isolate	1	2	3	4	5	6	7
<i>Corynebacterium kutscheri</i>	-	-	-	-	-	-	-
<i>Pasteurella multocida</i>	-	-	-	-	-	-	-
<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	1	2	3	4	5	6	7
CAR bacillus								
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-	-	-
Hantaan								
Hantaan NP	MFI > 4.000	-	-	-	-	-	-	-
LCMV								
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-
Mycoplasma pulmonis								
<i>M. pulmonis</i> purified bacteria	MFI > 2.250	-	-	-	-	-	-	-
MAV1								
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-
RPV								
RPV purified virus	MFI > 2.000	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-
RMV								
RMV VP2 recombinant	MFI > 2.000	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-
KRV								
KRV purified virus	MFI > 3.000	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-

	Baseline	1	2	3	4	5	6	7
RTV								
RTV purified virus	MFI > 2.000	-	-	-	-	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-	-	-	-	-
Sendai								
Sendai purified virus	MFI > 3.750	-	-	-	-	-	-	-
<i>Clostridium piliforme</i>								
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	-	-	-	-	-

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.

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IDEXX BioResearch Case # 8282-2017

**Received: 3/7/2017
Completed: 3/10/2017**

Submitted By

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University of Missouri-RCA
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Phone: 573-884-7970
Email: franklinc@missouri.edu; bethunec@missouri.edu;
RhoadesJN@missouri.edu; watermanjd@missouri.edu;
oneilla@missouri.edu

Specimen Description

Species: rat
Description: 2 fur mite swab
Number of Specimens/Animals: 2
Building/Facility: Discovery Ridge
Area: W112

Client ID	Investigator	Room #
Racks 1-4A	Bryda	W112
Racks 4B-7	Bryda	W112

Services/Tests Performed: Fur Mite

PCR evaluation for: *Myocoptes*, *Radfordia*/*Myobia*

General Comments: AO:Quarterly fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

skin swab	Racks 1-4A	Racks 4B-7
<i>Mycoptes</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 wps = weak positive

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IDEXX BioResearch Case # 8279-2017

**Received: 3/7/2017
Completed: 3/15/2017**

Submitted By

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Phone: 573-884-7970
Email: franklinc@missouri.edu; RhoadesJN@missouri.edu;
watermanjd@missouri.edu; oneilla@missouri.edu

Specimen Description

Species: rat
Description: 1 female rat
Number of Specimens/Animals: 1
Building/Facility: Discovery Ridge
Area: W113

Client ID	Investigator	Room #	Strain /Breed	Sex	Rack
1	Bryda	W113	CD	F	1-2

Services/Tests Performed: Rederivation Necropsy Profile

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, CAR bacillus, H1, Hantaan, KRV, LCMV, MAV1, 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*, *Pneumocystis carinii*, *Streptobacillus moniliformis*

Parasitologic evaluation for: fur mites, mesostigmatid mites, lice, Spironucleus muris, Giardia muris, large intestinal flagellates and amoeba, pinworms and tapeworms

Microbiologic evaluation for: *Corynebacterium kutscheri*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Pasteurella multocida*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

General Comments: AO:Quarterly testing for sentinels placed 12/2016

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

	1
CAR bacillus	-
Hantaan	-
LCMV	-
<i>Mycoplasma pulmonis</i>	-
MAV1	-
RPV	-
RMV	-
KRV	-
H1	-
PVM	-
RCV/SDAV	-
REO3	-
RTV	-
Sendai	-
<i>Clostridium piliforme</i>	-
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	1
<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>	-

lung	1
<i>Pneumocystis carinii</i>	-

oral swab	1
<i>Mycoplasma pulmonis</i>	-
<i>Streptobacillus moniliformis</i>	-

Legend: + = positive - = negative id:id = pooled sample range id+id+id = non-range pooled sample NT or blank = no test performed wps = weak positive

PARASITOLOGY

	1
parasites	-

MICROBIOLOGY

Specimen/Source: cecum

Isolate	1
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
<i>Salmonella enterica</i>	-

Specimen/Source: nasopharynx

Isolate	1
<i>Corynebacterium kutscheri</i>	-
<i>Pasteurella multocida</i>	-
<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	1
CAR bacillus		
CAR bacillus purified bacteria	MFI > 3.750	-
Hantaan		
Hantaan NP	MFI > 4.000	-
LCMV		
LCMV recombinant	MFI > 3.000	-
Mycoplasma pulmonis		
<i>M. pulmonis</i> purified bacteria	MFI > 2.250	-
MAV1		
MAV1 purified virus	MFI > 3.750	-
RPV		
RPV purified virus	MFI > 2.000	-
NS1 ¹	MFI > 3.750	-
RMV		
RMV VP2 recombinant	MFI > 2.000	-
NS1 ¹	MFI > 3.750	-
KRV		
KRV purified virus	MFI > 3.000	-
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	-

If you have questions, please call our toll free number at 1-800-669-0825 or e-mail us at idexxbioresearch@idexx.com.

	Baseline	1
RTV		
RTV purified virus	MFI > 2.000	-
TMEV purified virus	MFI > 2.000	-
Sendai		
Sendai purified virus	MFI > 3.750	-
<i>Clostridium piliforme</i>		
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-

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.

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IDEXX BioResearch Case # 8283-2017

**Received: 3/7/2017
Completed: 3/10/2017**

Submitted By

Sentinels
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Columbia, MO 65201

Phone: 573-884-7970
Email: franklinc@missouri.edu; bethunec@missouri.edu;
RhoadesJN@missouri.edu; watermanjd@missouri.edu;
oneilla@missouri.edu

Specimen Description

Species: rat
Description: 1 rat fur mite swab
Number of Specimens/Animals: 1
Building/Facility: Discovery Ridge
Area: W113

Client ID	Investigator	Room #
Rat	Bryda	W113

Services/Tests Performed: Fur Mite

PCR evaluation for: *Myocoptes*, *Radfordia*/*Myobia*

General Comments: AOQuarterly fur mite testing

Summary: All test results were negative.

PCR EVALUATION

skin swab	Rat
<i>Mycocptes</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 wps = weak positive

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IDEXX BioResearch Case # 8278-2017

**Received: 3/8/2017
Completed: 3/14/2017**

Submitted By

Sentinels
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Columbia, MO 65201

Phone: 573-884-7970
Email: franklinc@missouri.edu; bethunec@missouri.edu;
RhoadesJN@missouri.edu; watermanjd@missouri.edu;
oneilla@missouri.edu

Specimen Description

Species: rat
Description: 5 female rats
Number of Specimens/Animals: 5
Building/Facility: Discovery Ridge
Area: W114

Client ID	Investigator	Room #	Strain /Breed	Sex	Rack
1	Bryda	W114	CD	F	1
2	Bryda	W114	CD	F	2
3	Bryda	W114	CD	F	3
4	Bryda	W114	CD	F	4
5	Bryda	W114	CD	F	5

Services/Tests Performed: Rederivation Necropsy Profile

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, CAR bacillus, H1, Hantaan, KRV, LCMV, MAV1, 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*, *Pneumocystis carinii*, *Streptobacillus moniliformis*

Parasitologic evaluation for: fur mites, mesostigmatid mites, lice, Spironucleus muris, Giardia muris, large intestinal flagellates and amoeba, pinworms and tapeworms

Microbiologic evaluation for: *Corynebacterium kutscheri*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Pasteurella multocida*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

General Comments: AO:Quarterly testing for sentinels placed 12/2016

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

	1	2	3	4	5
CAR bacillus	-	-	-	-	-
Hantaan	-	-	-	-	-
LCMV	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-
MAV1	-	-	-	-	-
RPV	-	-	-	-	-
RMV	-	-	-	-	-
KRV	-	-	-	-	-
H1	-	-	-	-	-
PVM	-	-	-	-	-
RCV/SDAV	-	-	-	-	-
REO3	-	-	-	-	-
RTV	-	-	-	-	-
Sendai	-	-	-	-	-
<i>Clostridium piliforme</i>	-	-	-	-	-
Rat IgG	N	N	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	1	2	3	4	5
<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>	-	-	-	-	-

lung	1	2	3	4	5
<i>Pneumocystis carinii</i>	-	-	-	-	-

oral swab	1	2	3	4	5
<i>Mycoplasma pulmonis</i>	-	-	-	-	-
<i>Streptobacillus moniliformis</i>	-	-	-	-	-

Legend: + = positive - = negative id:id = pooled sample range id+id+id = non-range pooled sample NT or blank = no test performed wps = weak positive

PARASITOLOGY

	1	2	3	4	5
parasites	-	-	-	-	-

MICROBIOLOGY

Specimen/Source: cecum

Isolate	1	2	3	4	5
<i>Klebsiella oxytoca</i>	-	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-	-

Specimen/Source: nasopharynx

Isolate	1	2	3	4	5
<i>Corynebacterium kutscheri</i>	-	-	-	-	-
<i>Pasteurella multocida</i>	-	-	-	-	-
<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	1	2	3	4	5
CAR bacillus						
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-
Hantaan						
Hantaan NP	MFI > 4.000	-	-	-	-	-
LCMV						
LCMV recombinant	MFI > 3.000	-	-	-	-	-
Mycoplasma pulmonis						
<i>M. pulmonis</i> purified bacteria	MFI > 2.250	-	-	-	-	-
MAV1						
MAV1 purified virus	MFI > 3.750	-	-	-	-	-
RPV						
RPV purified virus	MFI > 2.000	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-
RMV						
RMV VP2 recombinant	MFI > 2.000	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-
KRV						
KRV purified virus	MFI > 3.000	-	-	-	-	-
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	-	-	-	-	-

	Baseline	1	2	3	4	5
RTV						
RTV purified virus	MFI > 2.000	-	-	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-	-	-
Sendai						
Sendai purified virus	MFI > 3.750	-	-	-	-	-
<i>Clostridium piliforme</i>						
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	-	-	-

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.

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioResearch Case # 8281-2017

**Received: 3/7/2017
Completed: 3/10/2017**

Submitted By

Sentinels
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Specimen Description

Species: rat
Description: 2 rat fur mite swabs
Number of Specimens/Animals: 2
Building/Facility: Discovery Ridge
Area: W114

Client ID	Investigator	Room #
Racks 1-3A	Bryda	W114
Racks 3B-5	Bryda	W114

Services/Tests Performed: Fur Mite

PCR evaluation for: *Myocoptes*, *Radfordia*/*Myobia*

General Comments: AOQuarterly fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

skin swab	Racks 1-3A	Racks 3B-5
<i>Mycoptes</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 wps = weak positive