

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 # 7033-2016

Received: 3/2/2016

Completed: 3/7/2016

Submitted By

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

Phone: 573-884-7970
Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; brydae@missouri.edu;
watermanjd@missouri.edu; dixonl@missouri.edu;
oneilla@missouri.edu; boltec@missouri.edu;
oconnore@missouri.edu; mcdowellm@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

Specimen Description

Species: rat
Description: Live Rats
Number of Specimens/Animals: 7
Building/Facility: W112

Purchase Order #: DM413

Client ID	Investigator	Room #	Strain /Breed	Sex	Age	Rack
1	Bryda	W112	CD	F	Adult	1
2	Bryda	W112	CD	F	Adult	2
3	Bryda	W112	CD	F	Adult	3
4	Bryda	W112	CD	F	Adult	4
5	Bryda	W112	CD	F	Adult	5
6	Bryda	W112	CD	F	Adult	6
7	Bryda	W112	CD	F	Adult	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: CB: Sentinels placed 12/1/2015 quarterly testing.

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

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IDEXX BioResearch Case # 7033-2016

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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 > 3.500	-	-	-	-	-	-	-
LCMV								
LCMV recombinant	MFI > 2.000	-	-	-	-	-	-	-
Mycoplasma pulmonis								
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-	-	-	-	-	-	-
MAV1								
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-
RPV								
RPV purified virus	MFI > 2.000	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-
RMV								
RMV VP2 recombinant	MFI > 1.300	-	-	-	-	-	-	-
NS1 ¹	MFI > 3.750	-	-	-	-	-	-	-
KRV								
KRV purified virus	MFI > 2.500	-	-	-	-	-	-	-
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 idxxbioresearch@idexx.com.

	Baseline	1	2	3	4	5	6	7
RTV								
RTV purified virus	MFI > 1.500	-	-	-	-	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-	-	-	-	-
Sendai								
Sendai purified virus	MFI > 3.000	-	-	-	-	-	-	-
<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 # 7032-2016

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

Phone: 573-884-7970
Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; brydae@missouri.edu;
watermanjd@missouri.edu; dixonl@missouri.edu;
oneilla@missouri.edu; boltec@missouri.edu;
oconnore@missouri.edu; mcdowellm@missouri.edu

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

Fax: [573] 884=7521
Email: FranklinC@missouri.edu

Specimen Description

Species: rat
Description: Live Rat
Number of Specimens/Animals: 1
Building/Facility: W113

Purchase Order #: DM413

Client ID	Investigator	Room #	Strain /Breed	Sex	Age	Rack
1	Bryda	W113	CD	F	Adult	1

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: CB: Sentinels placed 12/1/2015 quarterly testing.

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



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IDEXX BioResearch Case # 7032-2016

Received: 3/2/2016

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SEROLOGY DETAILS

	Baseline	1
CAR bacillus		
CAR bacillus purified bacteria	MFI > 3.750	-
Hantaan		
Hantaan NP	MFI > 3.500	-
LCMV		
LCMV recombinant	MFI > 2.000	-
Mycoplasma pulmonis		
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-
MAV1		
MAV1 purified virus	MFI > 3.750	-
RPV		
RPV purified virus	MFI > 2.000	-
NS1 ¹	MFI > 3.750	-
RMV		
RMV VP2 recombinant	MFI > 1.300	-
NS1 ¹	MFI > 3.750	-
KRV		
KRV purified virus	MFI > 2.500	-
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 > 1.500	-
TMEV purified virus	MFI > 2.000	-
Sendai		
Sendai purified virus	MFI > 3.000	-
<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 # 7031-2016

Received: 3/2/2016

Completed: 3/7/2016

Submitted By

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

Phone: 573-884-7970
Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; brydae@missouri.edu;
watermanjd@missouri.edu; dixonl@missouri.edu;
oneilla@missouri.edu; boltec@missouri.edu;
oconnore@missouri.edu; mcdowellm@missouri.edu

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

Fax: [573] 884=7521
Email: FranklinC@missouri.edu

Specimen Description

Species: rat
Description: Live Rats
Number of Specimens/Animals: 3
Building/Facility: W114

Purchase Order #: DM413

Client ID	Investigator	Room #	Strain /Breed	Sex	Age	Rack
1	Bryda	W114	CD	F	Adult	1
2	Bryda	W114	CD	F	Adult	4
3	Bryda	W114	CD	F	Adult	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: CB: Sentinels placed 12/1/2015 quarterly testing.

Summary: Reactivity to CAR bacillus was detected by MFI in sample 2. The follow up IFA test result was negative. The overall conclusion is that the sample is negative for antibodies to CAR bacillus. All other 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
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

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
<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
<i>Pneumocystis carinii</i>	-	-	-

oral swab	1	2	3
<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
parasites	-	-	-

MICROBIOLOGY

Specimen/Source: cecum

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

Specimen/Source: nasopharynx

Isolate	1	2	3
<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

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SEROLOGY DETAILS

	Baseline	1	2	3
CAR bacillus				
CAR bacillus purified bacteria	MFI > 3.750	-	+8	-
CAR bacillus	IFA		-	
Hantaan				
Hantaan NP	MFI > 3.500	-	-	-
LCMV				
LCMV recombinant	MFI > 2.000	-	-	-
Mycoplasma pulmonis				
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-	-	-
MAV1				
MAV1 purified virus	MFI > 3.750	-	-	-
RPV				
RPV purified virus	MFI > 2.000	-	-	-
NS1 ¹	MFI > 3.750	-	-	-
RMV				
RMV VP2 recombinant	MFI > 1.300	-	-	-
NS1 ¹	MFI > 3.750	-	-	-
KRV				
KRV purified virus	MFI > 2.500	-	-	-
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				

	Baseline	1	2	3
REO3 purified virus	MFI > 4.900	-	-	-
RTV				
RTV purified virus	MFI > 1.500	-	-	-
TMEV purified virus	MFI > 2.000	-	-	-
Sendai				
Sendai purified virus	MFI > 3.000	-	-	-
<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 # 7860-2016

Received: 3/10/2016
Completed: 3/14/2016

Submitted By

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

Phone: 573-884-7970
 Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; brydae@missouri.edu;
watermanjd@missouri.edu; dixonl@missouri.edu;
oneilla@missouri.edu; boltec@missouri.edu;
oconnore@missouri.edu; mcdowellm@missouri.edu

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

Fax: [573] 884=7521
 Email: FranklinC@missouri.edu

Specimen Description

Species: rat
 Description: Swabs
 Number of Specimens/Animals: 2
 Building/Facility: W112

Purchase Order #: DM413

Client ID	Investigator	Room #	Rack
C	Bryda	W112	1-3
D	Bryda	W112	4-6

Services/Tests Performed: Fur Mite

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

General Comments: CB: Quarterly fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

skin swab	C	D
<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 # 7859-2016

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

Phone: 573-884-7970
Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; brydae@missouri.edu;
watermanjd@missouri.edu; dixonl@missouri.edu;
oneilla@missouri.edu; boltec@missouri.edu;
oconnore@missouri.edu; mcdowellm@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

Specimen Description

Species: rat
Description: Swab
Number of Specimens/Animals: 1
Building/Facility: W113

Purchase Order #: DM413

Client ID	Investigator	Room #	Rack
A	Bryda	W113	1

Services/Tests Performed: Fur Mite

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

General Comments: CB: Quarterly fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

skin swab	A
<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

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 # 7861-2016

**Received: 3/10/2016
Completed: 3/14/2016**

Submitted By

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

Phone: 573-884-7970
Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; brydae@missouri.edu;
watermanjd@missouri.edu; dixonl@missouri.edu;
oneilla@missouri.edu; boltec@missouri.edu;
oconnore@missouri.edu; mcdowellm@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

Specimen Description

Species: rat
Description: Swabs
Number of Specimens/Animals: 2
Building/Facility: W114

Purchase Order #: DM413

Client ID	Investigator	Room #	Rack
E	Bryda	W114	1-3a
F	Bryda	W114	3b-5

Services/Tests Performed: Fur Mite

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

General Comments: CB: Quarterly fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

skin swab	E	F
<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