

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 # 32772-2016

Received: 12/7/2016
Completed: 12/13/2016

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

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 on 9/5/2016.

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	6	7
CAR bacillus	-	-	-	-	-	-	-
Hantaan	-	-	-	-	-	-	-
LCMV	-	-	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-
MAV1	-	-	-	-	-	-	-
MAV2	-	-	-	-	-	-	-
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>	-	-	-	-	-	-	-

oral swab	1	2	3	4	5	6	7
<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 > 3.750	-	-	-	-	-	-	-
LCMV								
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-
Mycoplasma pulmonis								
<i>M. pulmonis</i> purified bacteria	MFI > 2.250	-	-	-	-	-	-	-
MAV1								
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-
MAV2								
MAV2 purified virus	MFI > 3.500	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-

	Baseline	1	2	3	4	5	6	7
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	-	-	-	-	-	-	-
<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 # 33652-2016

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Completed: 12/20/2016

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: 2 fur mite swabs
Number of Specimens/Animals: 2
Building/Facility: Discovery Ridge
Area: W112

Table with 7 columns: ID, Client ID, Investigator, Room #, Strain /Breed, Sex, Rack. Contains 2 rows of specimen data.

Services/Tests Performed: Fur Mite

PCR evaluation for: Myocoptes, Radfordia/Myobia

General Comments: AO: Quarterly PCR fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

skin swab	1	2
<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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idxxbioresearch@idexx.com www.idexxbioresearch.com

IDEXX BioResearch Case # 32773-2016

Received: 12/7/2016
Completed: 12/13/2016

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: 1
 Building/Facility: W113

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 on 9/5/2016.

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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4011 Discovery Drive, Columbia, MO 65201

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

idexxbioresearch@idexx.com

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IDEXX BioResearch Case # 32773-2016

Received: 12/7/2016

Completed: 12/13/2016

SEROLOGY DETAILS

	Baseline	1
CAR bacillus		
CAR bacillus purified bacteria	MFI > 3.750	-
Hantaan		
Hantaan NP	MFI > 3.750	-
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
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

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

idxxbioresearch@idexx.com www.idexxbioresearch.com

IDEXX BioResearch Case # 33651-2016

Received: 12/15/2016
Completed: 12/20/2016

Submitted By

Resource Center Animals-MMRRC
 University of Missouri-RCA-MMRRC
 Columbia, MO 65201

Phone: 573-884-7970
 Email: bethunec@missouri.edu;
RhoadesJN@missouri.edu; watermanjd@missouri.edu;
boltec@missouri.edu; dixonl@missouri.edu;
oneilla@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: mouse/rat
 Description: Fur Mite swabs
 Number of Specimens/Animals: 2
 Building/Facility: Discovery Ridge
 Area: W113

ID	Client ID	Investigator	Room #	Strain /Breed	Sex	Rack
1	Fur mite swab	Bryda	W113	Mouse/ Rat	U	1
2	Fur mite swab	Bryda	W113	Mouse/ Rat	U	2-5

Services/Tests Performed: Fur Mite - PCR

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

General Comments: AO Quarterly PCR fur mite testing.

Summary: All test results were negative.

PCR EVALUATION

pelt swab	1	2
<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

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

idxxbioresearch@idexx.com www.idexxbioresearch.com

IDEXX BioResearch Case # 32774-2016

Received: 12/7/2016
Completed: 12/13/2016

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;
occonnore@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: 5
 Building/Facility: W114

Client ID	Investigator	Room #	Strain /Breed	Sex	Age	Rack
1	Bryda	W114	CD	F	Adult	1
2	Bryda	W114	CD	F	Adult	2
3	Bryda	W114	CD	F	Adult	3
4	Bryda	W114	CD	F	Adult	4
5	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 on 9/5/2016.

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 > 3.750	-	-	-	-	-
LCMV						
LCMV recombinant	MFI > 3.000	-	-	-	-	-
Mycoplasma pulmonis						
M. pulmonis 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	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

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

idxxbioresearch@idexx.com www.idexxbioresearch.com

IDEXX BioResearch Case # 33653-2016

Received: 12/15/2016
Completed: 12/20/2016

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;
occonnore@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: 2 fur mite swabs
 Number of Specimens/Animals: 2
 Building/Facility: Discovery ridge
 Area: W114

ID	Client ID	Investigator	Room #	Strain /Breed	Sex	Rack
1	Fur mite swab	Bryda	W114	Rat	U	1-3
2	Fur mite swab	Bryda	W114	Rat	U	4-5

Services/Tests Performed: Fur Mite

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

General Comments: AO: Quarterly PCR fur mite testing

Summary: All test results were negative.

PCR EVALUATION

skin swab	1	2
<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