

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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

idxxbioresearch@idexx.com www.idxxbioresearch.com

IDEXX BioResearch Case # 15598-2016

**Received: 6/1/2016
Completed: 6/12/2016**

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; *Bordetella bronchiseptica* (7); *Staphylococcus aureus* (7); *Encephalitozoon cuniculi* (7); *Streptobacillus moniliformis* - PCR; *Mycoplasma pulmonis* - PCR

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: *Bordetella bronchiseptica*, *Encephalitozoon cuniculi*, *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Mycoplasma pulmonis*, *Pneumocystis carinii*, *Staphylococcus aureus*, *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 March 1, 2016

Summary: Reactivity to CAR bacillus was detected by MFI in multiple samples. The follow up IFA test results were negative. The overall conclusion is that the samples are 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	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	7
<i>Bordetella bronchiseptica</i>	-
<i>Staphylococcus aureus</i>	-

feces	7
<i>Encephalitozoon cuniculi</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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idexxbioresearch@idexx.com

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SEROLOGY DETAILS

	Baseline	1	2	3	4	5	6	7
CAR bacillus								
CAR bacillus purified bacteria	MFI > 3.750	+6	-	-	EQ	-	-	-
CAR bacillus	IFA	-			-			
Hantaan								
Hantaan NP	MFI > 3.500	-	-	-	-	-	-	-
LCMV								
LCMV recombinant	MFI > 3.000	-	-	-	-	-	-	-
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								

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	6	7
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 # 16258-2016

**Received: 6/9/2016
Completed: 6/13/2016**

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: Swabs
Number of Specimens/Animals: 2
Building/Facility: W112

Client ID	Investigator	Room #	Rack
C	Bryda	W112	1-4a
D	Bryda	W112	4b-7

Services/Tests Performed: Fur Mite

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

General Comments: CB: Quarterly fur mite testing for room W112.

Summary: All test results were negative.

PCR EVALUATION

skin swab	C	D
<i>Myocoptes</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 # 15597-2016

**Received: 6/1/2016
Completed: 6/4/2016**

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 Rat
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 March 1, 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



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

idexxbioresearch@idexx.com

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IDEXX BioResearch Case # 15597-2016

Received: 6/1/2016

Completed: 6/4/2016

SEROLOGY DETAILS

	Baseline	1
CAR bacillus		
CAR bacillus purified bacteria	MFI > 3.750	-
Hantaan		
Hantaan NP	MFI > 3.500	-
LCMV		
LCMV recombinant	MFI > 3.000	-
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	-

	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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idexxbioresearch@idexx.com

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IDEXX BioResearch Case # 16257-2016

Received: 6/9/2016

Completed: 6/13/2016

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: mouse/rat
Description: Swabs
Number of Specimens/Animals: 2
Building/Facility: W113

Purchase Order #: DR786 DQ731

Table with 5 columns: Client ID, Investigator, Room #, Strain /Breed, Rack. Rows include Client ID A (Rat) and Client ID B (Mouse).

Services/Tests Performed: Fur Mite

PCR evaluation for: Myocoptes, Radfordia/Myobia

General Comments: CB: Quarterly fur mite testing for room W113. Sample A is for rats, Sample B for mice.

Summary: All test results were negative.

PCR EVALUATION

skin swab	A	B
<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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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 March 1, 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



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idexxbioresearch@idexx.com

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IDEXX BioResearch Case # 15596-2016

Received: 6/1/2016

Completed: 6/4/2016

SEROLOGY DETAILS

	Baseline	1	2	3	4	5
CAR bacillus						
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-
Hantaan						
Hantaan NP	MFI > 3.500	-	-	-	-	-
LCMV						
LCMV recombinant	MFI > 3.000	-	-	-	-	-
Mycoplasma pulmonis						
M. pulmonis 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	2	3	4	5
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.



FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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

idexxbioresearch@idexx.com

www.idexxbioresearch.com

IDEXX BioResearch Case # 16259-2016

Received: 6/9/2016

Completed: 6/13/2016

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: Swabs
Number of Specimens/Animals: 2
Building/Facility: W114

Table with 4 columns: Client ID, Investigator, Room #, Rack. Rows include E (Bryda, W114, 1-3) and F (Bryda, W114, 4-5).

Services/Tests Performed: Fur Mite

PCR evaluation for: Myocoptes, Radfordia/Myobia

General Comments: CB: Quarterly fur mite testing for room W114.

Summary: All test results were negative.

PCR EVALUATION

skin swab	E	F
<i>Myocoptes</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