

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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

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[www.idexxbioresearch.com](http://www.idexxbioresearch.com)

IDEXX BioResearch Case # 28381-2014

Received: 12/3/2014  
Completed: 12/10/2014

**Submitted By**

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Columbia, MO 65201

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**Specimen Description**

Species: rat  
Description: Live Rats  
Number of Specimens/Animals: 5  
Building/Facility: W112

Purchase Order #: DK993

Client ID	Investigator	Room #	Strain	Sex	Age	Rack
1	Bryda	W112	CD	F	Adult	1
2	Bryda	W112	CD	F	Adult	3
3	Bryda	W112	CD	F	Adult	4
4	Bryda	W112	CD	F	Adult	5
5	Bryda	W112	CD	F	Adult	6

**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*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** CB: Sentinels placed on 9/2/2014.

**Summary:** All test results were negative.

## 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

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

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>	-	-	-	-	-

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

**Comments:** All samples are first tested by the *Helicobacter* spp. PCR assay which is a generic *Helicobacter* PCR assay that detects all bacteria in the *Helicobacter* genus. Samples testing negative on this assay are reported negative for *Helicobacter* spp. and all species-specific helicobacters. Samples testing positive on the *Helicobacter* spp. assay are retested with the *Helicobacter* spp. assay and tested with the species-specific helicobacter PCR assays.

**PARASITOLOGY**

	1	2	3	4	5
parasites	-	-	-	-	-

**MICROBIOLOGY**

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

nasopharynx	1	2	3	4	5
<i>Corynebacterium kutscheri</i>	-	-	-	-	-
<i>Pasteurella multocida</i>	-	-	-	-	-
<i>Pasteurella pneumotropica</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 p = Proteus overgrowth, which may interfere with the identification of other bacteria

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Received: 12/3/2014

Completed: 12/10/2014

SEROLOGY DETAILS

	Baseline	1	2	3	4	5
<b>CAR bacillus</b>						
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-
<b>Hantaan</b>						
Hantaan purified virus	MFI > 1.250	-	-	-	-	-
<b>LCMV</b>						
LCMV recombinant	MFI > 1.000	-	-	-	-	-
<b>Mycoplasma pulmonis</b>						
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-	-	-	-	-
<b>MAV1</b>						
MAV1 purified virus	MFI > 3.750	-	-	-	-	-
<b>RPV</b>						
RPV purified virus	MFI > 1.100	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-	-	-	-
<b>RMV</b>						
RMV VP2 recombinant	MFI > 1.000	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-	-	-	-
<b>KRV</b>						
KRV purified virus	MFI > 2.250	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-	-	-	-
<b>H1</b>						
H1 purified virus	MFI > 1.200	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-	-	-	-
<b>PVM</b>						
PVM purified virus	MFI > 2.500	-	-	-	-	-
<b>RCV/SDAV</b>						
RCV/SDAV purified virus	MFI > 3.750	-	-	-	-	-
RCV/SDAV NC recombinant	MFI > 4.950	-	-	-	-	-
<b>REO3</b>						
REO3 purified virus	MFI > 4.900	-	-	-	-	-

	Baseline	1	2	3	4	5
<b>RTV</b>						
RTV purified virus	MFI > 1.100	-	-	-	-	-
TMEV purified virus	MFI > 1.500	-	-	-	-	-
<b>Sendai</b>						
Sendai purified virus	MFI > 3.000	-	-	-	-	-
<b><i>Clostridium piliforme</i></b>						
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	-	-	-

**NS1<sup>1</sup>:** 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 # 28378-2014

Received: 12/11/2014

Completed: 12/16/2014

**Submitted By**

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valenzuelad@missouri.edu

**Specimen Description**

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

**Purchase Order #: DK993**

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

**Services/Tests Performed:** Fur Mite

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

**General Comments:** CB: Swabs for quarterly fur mite PCR.

**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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IDEXX BioResearch Case # 28382-2014

Received: 12/3/2014

Completed: 12/10/2014

**Submitted By**

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[valenzuelad@missouri.edu](mailto:valenzuelad@missouri.edu)

**Specimen Description**

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

Purchase Order #: DK993

Client ID	Investigator	Room #	Strain	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*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** CB: Sentinels placed on 9/2/2014.

**Summary:** All test results were negative.



## 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

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

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>	-

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

**Comments:** All samples are first tested by the *Helicobacter* spp. PCR assay which is a generic *Helicobacter* PCR assay that detects all bacteria in the *Helicobacter* genus. Samples testing negative on this assay are reported negative for *Helicobacter* spp. and all species-specific helicobacters. Samples testing positive on the *Helicobacter* spp. assay are retested with the *Helicobacter* spp. assay and tested with the species-specific helicobacter PCR assays.

**PARASITOLOGY**

	1
parasites	-

**MICROBIOLOGY**

<b>cecum</b>	<b>1</b>
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
<i>Salmonella enterica</i>	-

<b>nasopharynx</b>	<b>1</b>
<i>Corynebacterium kutscheri</i>	-
<i>Pasteurella multocida</i>	-
<i>Pasteurella pneumotropica</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 p = Proteus overgrowth, which may interfere with the identification of other bacteria



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IDEXX BioResearch Case # 28382-2014

Received: 12/3/2014

Completed: 12/10/2014

SEROLOGY DETAILS

	Baseline	1
<b>CAR bacillus</b>		
CAR bacillus purified bacteria	MFI > 3.750	-
<b>Hantaan</b>		
Hantaan purified virus	MFI > 1.250	-
<b>LCMV</b>		
LCMV recombinant	MFI > 1.000	-
<b>Mycoplasma pulmonis</b>		
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-
<b>MAV1</b>		
MAV1 purified virus	MFI > 3.750	-
<b>RPV</b>		
RPV purified virus	MFI > 1.100	-
NS1 <sup>1</sup>	MFI > 3.820	-
<b>RMV</b>		
RMV VP2 recombinant	MFI > 1.000	-
NS1 <sup>1</sup>	MFI > 3.820	-
<b>KRV</b>		
KRV purified virus	MFI > 2.250	-
NS1 <sup>1</sup>	MFI > 3.820	-
<b>H1</b>		
H1 purified virus	MFI > 1.200	-
NS1 <sup>1</sup>	MFI > 3.820	-
<b>PVM</b>		
PVM purified virus	MFI > 2.500	-
<b>RCV/SDAV</b>		
RCV/SDAV purified virus	MFI > 3.750	-
RCV/SDAV NC recombinant	MFI > 4.950	-
<b>REO3</b>		
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 idexx-radil@idexx.com.

	Baseline	1
<b>RTV</b>		
RTV purified virus	MFI > 1.100	-
TMEV purified virus	MFI > 1.500	-
<b>Sendai</b>		
Sendai purified virus	MFI > 3.000	-
<b><i>Clostridium piliforme</i></b>		
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-

**NS1<sup>1</sup>:** 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 # 28377-2014

Received: 12/11/2014

Completed: 12/16/2014

**Submitted By**

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[valenzuelad@missouri.edu](mailto:valenzuelad@missouri.edu)

**Specimen Description**

Species: mixed  
Description: Swabs  
Number of Specimens/Animals: 2  
Building/Facility: W113

Purchase Order #: DK023 and DK993

Client ID	Investigator	Room #	Rack
A	Bryda	W113	1
B	Bryda	W113	2-6

**Services/Tests Performed:** Fur Mite - PCR

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

**General Comments:** CB: Swabs for quarterly fur mite PCR. A for rats and B for mouse.

**Summary:** All test results were negative.

## PCR EVALUATION

pelt swab	A	B
<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 # 28383-2014

Received: 12/3/2014  
Completed: 12/10/2014

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valenzuelad@missouri.edu

Specimen Description

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

Purchase Order #: DK993

Client ID	Investigator	Room #	Strain	Sex	Age	Rack
1	Bryda	W114	CD	F	Adult	1
2	Bryda	W114	CD	F	Adult	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*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** CB: Sentinels placed on 9/2/2014.

**Summary:** All test results were negative.

## NECROPSY

No gross lesions were detected in any of the body systems and organs examined.

## SEROLOGY SUMMARY

	1	2
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

**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

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

feces	1	2
<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
<i>Pneumocystis carinii</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

**Comments:** All samples are first tested by the *Helicobacter* spp. PCR assay which is a generic *Helicobacter* PCR assay that detects all bacteria in the *Helicobacter* genus. Samples testing negative on this assay are reported negative for *Helicobacter* spp. and all species-specific helicobacters. Samples testing positive on the *Helicobacter* spp. assay are retested with the *Helicobacter* spp. assay and tested with the species-specific helicobacter PCR assays.

**PARASITOLOGY**

	1	2
parasites	-	-

**MICROBIOLOGY**

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

nasopharynx	1	2
<i>Corynebacterium kutscheri</i>	-	-
<i>Pasteurella multocida</i>	-	-
<i>Pasteurella pneumotropica</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 p = Proteus overgrowth, which may interfere with the identification of other bacteria

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IDEXX BioResearch Case # 28383-2014

Received: 12/3/2014

Completed: 12/10/2014

SEROLOGY DETAILS

	Baseline	1	2
<b>CAR bacillus</b>			
CAR bacillus purified bacteria	MFI > 3.750	-	-
<b>Hantaan</b>			
Hantaan purified virus	MFI > 1.250	-	-
<b>LCMV</b>			
LCMV recombinant	MFI > 1.000	-	-
<b>Mycoplasma pulmonis</b>			
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-	-
<b>MAV1</b>			
MAV1 purified virus	MFI > 3.750	-	-
<b>RPV</b>			
RPV purified virus	MFI > 1.100	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-
<b>RMV</b>			
RMV VP2 recombinant	MFI > 1.000	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-
<b>KRV</b>			
KRV purified virus	MFI > 2.250	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-
<b>H1</b>			
H1 purified virus	MFI > 1.200	-	-
NS1 <sup>1</sup>	MFI > 3.820	-	-
<b>PVM</b>			
PVM purified virus	MFI > 2.500	-	-
<b>RCV/SDAV</b>			
RCV/SDAV purified virus	MFI > 3.750	-	-
RCV/SDAV NC recombinant	MFI > 4.950	-	-
<b>REO3</b>			
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 [idx-radil@idexx.com](mailto:idx-radil@idexx.com).

	Baseline	1	2
<b>RTV</b>			
RTV purified virus	MFI > 1.100	-	-
TMEV purified virus	MFI > 1.500	-	-
<b>Sendai</b>			
Sendai purified virus	MFI > 3.000	-	-
<b><i>Clostridium piliforme</i></b>			
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-

**NS1<sup>1</sup>:** 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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IDEXX BioResearch Case # 28379-2014

Received: 12/11/2014

Completed: 12/16/2014

**Submitted By**

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**Specimen Description**

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

Purchase Order #: DK993

Client ID	Investigator	Room #	Rack
E	Bryda	W114	1
F	Bryda	W114	2

**Services/Tests Performed:** Fur Mite

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

**General Comments:** CB: Swabs for quarterly fur mite PCR.

**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