

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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IDEXX BioResearch Case # 9568-2015

Received: 3/4/2015  
Completed: 3/13/2015

**Submitted By**

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**Specimen Description**

Species: mouse  
Description: Live Mice  
Number of Specimens/Animals: 5  
Building/Facility: W113

Purchase Order #: DL779

Client ID	Investigator	Room #	Strain	Sex	Age	Rack
1	Bryda	W113	CD-1	F	Adult	2
2	Bryda	W113	CD-1	F	Adult	3
3	Bryda	W113	CD-1	F	Adult	4
4	Bryda	W113	CD-1	F	Adult	5
5	Bryda	W113	CD-1	F	Adult	6

**Services/Tests Performed:** Rederivation Necropsy Profile

**Serologic evaluation for antibodies to:** *Clostridium piliforme*, *Mycoplasma pulmonis*, CAR bacillus, Ectromelia, EDIM, LCMV, LDEV, MAV1, MAV2, MCMV, MHV, MNV, MPV, MVM, Polyoma, PVM, REO3, Sendai, TMEV, *Encephalitozoon cuniculi*

**PCR evaluation for:** *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter spp.*, *Helicobacter typhlonius*, *Mycoplasma pulmonis*

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

**Microbiologic evaluation for:** *Citrobacter rodentium*, *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 12/2/2014

**Summary:** No conclusive evidence of serious, naturally occurring infectious disease was found.

## NECROPSY

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

## SEROLOGY SUMMARY

	1	2	3	4	5
CAR bacillus	-	-	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-	-	-
Ectromelia	-	-	-	-	-
EDIM	-	-	-	-	-
LCMV	-	-	-	-	-
LDEV	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-
MAV1	-	-	-	-	-
MAV2	-	-	-	-	-
MCMV	-	-	-	-	-
MHV	-	-	-	-	-
MNV	-	-	-	-	-
MPV	-	-	-	-	-
MVM	-	-	-	-	-
Polyoma	-	-	-	-	-
PVM	-	-	-	-	-
REO3	-	-	-	-	-
TMEV	-	-	-	-	-
Sendai	-	-	-	-	-
<i>Clostridium piliforme</i>	-	-	-	-	-
Mouse 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>	-	-	-	-	-

oral swab	1	2	3	4	5
<i>Mycoplasma pulmonis</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>Citrobacter rodentium</i>	-	-	-	-	-
<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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SEROLOGY DETAILS

	Baseline	1	2	3	4	5
<b>CAR bacillus</b>						
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-
<b>Encephalitozoon cuniculi</b>						
<i>E. cuniculi</i> purified protozoa	MFI > 1.200	-	-	-	-	-
<b>Ectromelia</b>						
Ectromelia purified virus	MFI > 0.900	-	-	-	-	-
<b>EDIM</b>						
EDIM purified virus	MFI > 4.000	-	-	-	-	-
EDIM VP6 recombinant	MFI > 2.500	-	-	-	-	-
<b>LCMV</b>						
LCMV recombinant	MFI > 1.000	-	-	-	-	-
<b>LDEV</b>						
LDEV	MFI > 3.250	-	-	-	-	-
<b>Mycoplasma pulmonis</b>						
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-	-	-	-	-
<b>MAV1</b>						
MAV1 purified virus	MFI > 3.750	-	-	-	-	-
<b>MAV2</b>						
MAV2 purified virus	MFI > 4.275	-	-	-	-	-
<b>MCMV</b>						
MCMV purified virus	MFI > 3.500	-	-	-	-	-
<b>MHV</b>						
MHV purified virus	MFI > 2.000	-	-	-	-	-
MHV NC recombinant	MFI > 4.950	-	-	-	-	-
<b>MNV</b>						
MNV purified virus	MFI > 2.000	-	-	-	-	-
MNV VP1 recombinant	MFI > 3.750	-	-	-	-	-
<b>MPV</b>						
MPV VP2 recombinant	MFI > 2.750	-	-	-	-	-

	Baseline	1	2	3	4	5
NS1 <sup>1</sup>	MFI > 3.750	-	-	-	-	-
<b>MVM</b>						
MVM VP2 recombinant	MFI > 2.000	-	-	-	-	-
NS1 <sup>1</sup>	MFI > 3.750	-	-	-	-	-
<b>Polyoma</b>						
Polyoma purified virus	MFI > 3.500	-	-	-	-	-
<b>PVM</b>						
PVM purified virus	MFI > 2.500	-	-	-	-	-
<b>REO3</b>						
REO3 purified virus	MFI > 4.900	-	-	-	-	-
<b>TMEV</b>						
TMEV purified virus	MFI > 2.250	-	-	-	-	-
RTV purified virus	MFI > 2.750	-	-	-	-	-
<b>Sendai</b>						
Sendai purified virus	MFI > 3.000	-	-	-	-	-
<b><i>Clostridium piliforme</i></b>						
<i>Clostridium piliforme</i> purified bacteria	MFI > 4.950	-	-	EQ	-	-
<i>Clostridium piliforme</i>	IFA			-		

**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 # 9572-2015

Received: 3/4/2015

Completed: 3/9/2015

**Submitted By**

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**Specimen Description**

Species: Other - mouse and rat

Description: Swabs

Number of Specimens/Animals: 2

Building/Facility: W113

Purchase Order #: DL779 and DK993

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

**Services/Tests Performed:** Fur Mite

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

**General Comments:** CB: Swabs for quarterly fur mite PCR testing. A is for rats.B is for mice.

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

## PCR EVALUATION

skin 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