

**FINAL REPORT OF LABORATORY EXAMINATION**

4011 Discovery Drive, Columbia, MO 65201

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**IDEXX BioResearch Case # 8280-2017**

**Received: 3/7/2017  
Completed: 3/14/2017**

**Submitted By**

Sentinels  
University of Missouri-RCA  
Columbia, MO 65201

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**Specimen Description**

Species: mouse  
Description: 4 female mice  
Number of Specimens/Animals: 4  
Building/Facility: Discovery Ridge  
Area: W113

Client ID	Investigator	Room #	Strain /Breed	Rack
1	Bryda	W113	CD-1	3
2	Bryda	W113	CD-1	4
3	Bryda	W113	CD-1	5
4	Bryda	W113	CD-1	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* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Salmonella enterica*, *Streptococcus pneumoniae*

**General Comments:** AO;Quarterly testing for sentinels placed 12/2016

**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
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

**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
<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
<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

## PARASITOLOGY

	1	2	3	4
parasites	-	-	-	-

## MICROBIOLOGY

Specimen/Source: cecum

Isolate	1	2	3	4
<i>Citrobacter rodentium</i>	-	-	-	-
<i>Klebsiella oxytoca</i>	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-

Specimen/Source: nasopharynx

Isolate	1	2	3	4
<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
<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 > 1.100	-	-	-	-
<b>EDIM</b>					
EDIM purified virus	MFI > 4.000	-	-	-	-
EDIM VP6 recombinant	MFI > 2.500	-	-	-	-
<b>LCMV</b>					
LCMV recombinant	MFI > 3.000	-	-	-	-
<b>LDEV</b>					
LDEV	MFI > 3.900	-	-	-	-
<b>Mycoplasma pulmonis</b>					
<i>M. pulmonis</i> purified bacteria	MFI > 2.250	-	-	-	-
<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 > 2.250	-	-	-	-
MHV NC recombinant	MFI > 3.500	-	-	-	-
<b>MNV</b>					
MNV purified virus	MFI > 2.500	-	-	-	-
MNV VP1 recombinant	MFI > 4.000	-	-	-	-
<b>MPV</b>					
MPV VP2 recombinant	MFI > 2.000	-	-	-	-

	Baseline	1	2	3	4
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 > 3.750	-	-	-	-
<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 > 3.750	-	-	-	-
<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 # 8284-2017**

**Received: 3/7/2017  
Completed: 3/10/2017**

**Submitted By**

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**Specimen Description**

Species: mouse  
Description: 1 fur mite swab  
Number of Specimens/Animals: 1  
Building/Facility: Discovery Ridge  
Area: W113

Client ID	Investigator	Room #
Mouse	Bryda	W113

**Services/Tests Performed: Fur Mite**

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

**General Comments:** AOQuarterly fur mite testing

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

## PCR EVALUATION

skin swab	Mouse
<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