

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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www.idexxbioresearch.com

IDEXX BioResearch Case # 14756-2014

Received: 6/3/2014
Completed: 6/12/2014

Submitted By

Sentinels
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Specimen Description

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

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 - mouse

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, CAR bacillus, Ectromelia, EDIM, Hantaan, K virus, LCMV, LDEV, MAD1, MAD2, MCMV, MHV, MNV, MPV, MTV, 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 3/3/2014 LOCATED ON CART AT CUSTOMER SERVICE

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	-	-	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-	-	-
Ectromelia	-	-	-	-	-
EDIM	-	-	-	-	-
LCMV	-	-	-	-	-
LDEV	-	-	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-	-	-
MAD1	-	-	-	-	-
MAD2	-	-	-	-	-
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

nasopharyngeal swab	1	2	3	4	5
<i>Mycoplasma pulmonis</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>	-	-	-	-	-

feces	1	2	3	4	5
<i>Helicobacter typhlonius</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
CAR bacillus						
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-
Encephalitozoon cuniculi						
<i>E. cuniculi</i> purified protozoa	MFI > 0.900	-	-	-	-	-
Ectromelia						
Ectromelia purified virus	MFI > 0.900	-	-	-	-	-
EDIM						
EDIM purified virus	MFI > 4.000	-	-	-	-	-
EDIM VP6 recombinant	MFI > 2.500	-	-	-	-	-
LCMV						
LCMV recombinant	MFI > 1.000	-	-	-	-	-
LDEV						
LDEV	MFI > 2.500	-	-	-	-	-
Mycoplasma pulmonis						
<i>M. pulmonis</i> purified bacteria	MFI > 2.750	-	-	-	-	-
MAD1						
MAD1 purified virus	MFI > 2.550	-	-	-	-	-
MAD2						
MAD2 purified virus	MFI > 4.275	-	-	-	-	-
MCMV						
MCMV purified virus	MFI > 3.500	-	-	-	-	-
MHV						
MHV purified virus	MFI > 4.100	-	-	-	-	-
MHV NC recombinant	MFI > 4.950	-	-	-	-	-
MNV						
MNV purified virus	MFI > 1.500	-	-	-	-	-
MNV VP1 recombinant	MFI > 3.250	-	-	-	-	-
MPV						
MPV VP2 recombinant	MFI > 2.750	-	-	-	-	-

	Baseline	1	2	3	4	5
NS1 ¹	MFI > 3.000	-	-	-	-	-
MVM						
MVM VP2 recombinant	MFI > 1.275	-	-	-	-	-
NS1 ¹	MFI > 3.000	-	-	-	-	-
Polyoma						
Polyoma purified virus	MFI > 3.500	-	-	-	-	-
PVM						
PVM purified virus	MFI > 1.500	-	-	-	-	-
REO3						
REO3 purified virus	MFI > 4.900	-	-	-	-	-
TMEV						
TMEV purified virus	MFI > 2.250	-	-	-	-	-
RTV purified virus	MFI > 2.750	-	-	-	-	-
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 # 14757-2014

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Submitted By

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Specimen Description

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

Purchase Order #: DK993 and DK023

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

Services/Tests Performed: Fur Mite - PCR

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

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

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