

IDEXX RADIL™**FINAL REPORT OF LABORATORY EXAMINATION****4011 Discovery Drive, Columbia MO 65201****1-800-669-0825 1-573-499-5700**idx-radil@idexx.comwww.idexxradil.com**CASE NUMBER: 19778-2013****RECEIVED ON: 9/11/2013****COMPLETED ON: 9/18/2013****SUBMITTED BY:**

Sentinels
 University of Missouri-RCA
 Columbia, MO 65201
 United States
 573-884-7970

SPECIMEN DESCRIPTION:**SPECIES:** mouse**DESCRIPTION:** Live Mice**NUMBER OF SPECIMENS:** 5**BUILDING/FACILITY:** W113

<u>ID</u>	<u>Investigator</u>	<u>Room #</u>	<u>Strain</u>	<u>Sex</u>	<u>Age</u>	<u>Rack</u>
1	Bryda	W113	CD-1	F	Adult	2
2		W113	CD-1	F	Adult	3
3		W113	CD-1	F	Adult	4
4		W113	CD-1	F	Adult	5
5		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, LCMV, LDEV, MAD1, MAD2, MCMV, MHV, MNV, MPV, MVM, Polyoma, PVM, REO3, Sendai, TMEV, *Encephalitozoon cuniculi*

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

Parasitologic evaluation for: fur mites, mesostigmatid mites, lice, *Spiroplasma 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*, *Salmonella enterica*, *Streptococcus pneumoniae*

GENERAL COMMENTS: CB: Sentinel mice placed 6/10/2013 LOCATED ON CART OUTSIDE CUSTOMER SERVICE

SUMMARY: All test results were negative.

If you have questions, please call our toll free number at 1-800-669-0825 or e-mail us at idx-radil@idexx.com.

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NECROPSY:

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

SEROLOGY:**MFI² Serology Summary Report:**

Date: 9/13/2013	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

Serology Detail Report:

		1	2	3	4	5
CAR bacillus						
CAR bacillus purified bacteria	MFI (> 3.750)	-	-	-	-	-
<i>Encephalitozoon cuniculi</i>						
<i>E. cuniculi</i> purified protozoa	MFI (> 0.900)	-	-	-	-	-
Ectromelia						
Ectromelia purified virus	MFI (> 0.900)	-	-	-	-	-

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Serology (continued)

		1	2	3	4	5
EDIM						
EDIM purified virus	MFI (> 4.900)	-	-	-	-	-
EDIM VP6 recombinant	MFI (> 4.310)	-	-	-	-	-
LCMV						
LCMV purified virus	MFI (> 0.800)	-	-	-	-	-
LDEV						
LDEV	MFI (> 3.750)	-	-	-	-	-
<i>Mycoplasma pulmonis</i>						
<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 (> 1.650)	-	-	-	-	-
MHV						
MHV purified virus	MFI (> 4.050)	-	-	-	-	-
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)	-	-	-	-	-
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 (> 2.300)	-	-	-	-	-

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Serology (continued)

		1	2	3	4	5
Sendai						
Sendai purified virus	MFI (> 2.800)	-	-	-	-	-
<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 L = less than normal IgG N = normal IgG NS = non-specific reactivity W = weak positive WB = Western Blot confirmatory analysis pending)

Positive MFI results are reported as "+" followed by a number from 1 to 33 in thousands rounded off to the nearest thousand.

PCR EVALUATION:

Specimen: feces	1	2	3	4	5
<i>Helicobacter</i> spp.	-	-	-	-	-
<i>Helicobacter bilis</i>	-	-	-	-	-
<i>Helicobacter ganmani</i>	-	-	-	-	-
<i>Helicobacter hepaticus</i>	-	-	-	-	-
<i>Helicobacter rodentium</i>	-	-	-	-	-
<i>Helicobacter typhlonius</i>	-	-	-	-	-
Specimen: nasopharyngeal swab	1	2	3	4	5
<i>Mycoplasma pulmonis</i>	-	-	-	-	-

(LEGEND: + = positive - = negative id:id = pooled sample NT or blank = no test performed wps = weak positive)

All samples are first tested by the *Helicobacter* spp. PCR assay; 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 subsequently retested on the *Helicobacter* spp. assay and tested with PCR assays specific for *H. bilis*, *H. ganmani*, *H. hepaticus*, *H. rodentium* and *H. typhlonius* and positive results are reported.

PARASITOLOGY:

	1	2	3	4	5
parasites	-	-	-	-	-

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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>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)