

IDEXX RADIL™**FINAL REPORT OF LABORATORY EXAMINATION**

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idx-radil@idexx.comwww.idexxradil.com**CASE NUMBER:** 25800-2012**RECEIVED ON:** 12/12/2012**COMPLETED ON:** 12/21/2012**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:** 8**BUILDING/FACILITY:** W113

ID	Investigator	Room #	Strain	Sex	Age	Rack	Date Placed
1	Franklin	W113	CD-1	f	adult	3	9/24/2012
2			CD-1			3	
3			CD-1			4	
4			CD-1			4	
5			CD-1			5	
6			CD-1			5	
7			CD-1			6	
8			CD-1			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 sp.*, *Helicobacter trogontum*, *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: Sentinel animals placed 9/24/12**SUMMARY:** No conclusive evidence of serious, naturally occurring infectious disease was found.

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: 12/17/2012	1	2	3	4	5	6	7	8
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	N	N	N

Serology Detail Report:

		1	2	3	4	5	6	7	8
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	6	7	8
EDIM									
EDIM purified virus	MFI (> 4.500)	-	-	-	-	-	-	-	-
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 (> 3.950)	-	-	-	-	-	-	-	-
MCMV									
MCMV purified virus	MFI (> 1.000)	-	-	-	-	-	-	-	-
MHV									
MHV purified virus	MFI (> 4.050)	-	-	-	-	-	-	-	-
MHV NC recombinant	MFI (> 4.950)	-	-	-	-	-	-	-	-
MNV									
MNV purified virus	MFI (> 2.000)	-	-	-	-	-	-	-	-
MNV VP1 recombinant	MFI (> 1.500)	-	-	-	-	-	-	-	-
MPV									
MPV VP2 recombinant	MFI (> 2.750)	-	-	-	-	-	-	-	-
NS1 ¹	MFI (> 3.000)	-	-	-	-	-	-	-	-
MVM									
MVM VP2 recombinant	MFI (> 0.900)	-	-	-	-	-	-	-	-
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	6	7	8
Sendai									
Sendai purified virus	MFI (> 2.800)	-	-	-	-	-	-	-	-
<i>Clostridium piliforme</i>									
<i>Clostridium piliforme</i> purified bacteria	MFI (> 4.950)	-	-	-	-	-	+7	-	-
<i>Clostridium piliforme</i>	IFA						-		

NS1¹ = NS1 protein is highly conserved among rodent parvoviruses and thus serves as a generic assay for parvovirus seroconversion.

(LEGEND: * = borderline + = positive - = negative blank = test not performed EQ = equivocal HE = hemolysis precluded testing I = insufficient L = less than 10% 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	6	7	8
<i>Helicobacter bilis</i>	-	-	-	-	-	-	-	-
<i>Helicobacter ganmani</i>	-	-	-	-	-	-	-	-
<i>Helicobacter hepaticus</i>	-	-	-	-	-	-	-	-
<i>Helicobacter rodentium</i>	-	-	-	-	-	-	-	-
<i>Helicobacter trogontum</i>	-	-	-	-	-	-	-	-
<i>Helicobacter typhlonius</i>	-	-	-	-	-	-	-	-
<i>Helicobacter</i> sp.	-	-	-	-	-	-	-	-
Specimen: nasopharyngeal swab	1	2	3	4	5	6	7	8
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-

(LEGEND: + = positive - = negative id:id = pooled sample blank = test not performed equ = equivocal NT or blank = no test performed sus = suspect wps = weak positive)

All samples are first tested using a generic *Helicobacter* PCR assay that detects all bacteria in the *Helicobacter* genus. Samples testing negative on this assay are reported negative for all helicobacters. Samples testing positive on the generic assay are subsequently tested with PCR assays specific for *H. bilis*, *H. ganmani*, *H. hepaticus*, *H. rodentium*, *H. trogontum* and *H. typhlonius* and positive results are reported. If the sample is positive on the generic *Helicobacter* assay, but negative on the six *Helicobacter* species-specific assays, the sample is reported positive for *Helicobacter* sp.

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PARASITOLOGY:

	1	2	3	4	5	6	7	8
parasites	-	-	-	-	-	-	-	-

MICROBIOLOGY:

cecum					1	2	3	4	5	6	7	8
<i>Citrobacter rodentium</i>					-	-	-	-	-	-	-	-
<i>Klebsiella oxytoca</i>					-	-	-	-	-	-	-	-
<i>Klebsiella pneumoniae</i>					-	-	-	-	-	-	-	-
<i>Salmonella enterica</i>					-	-	-	-	-	-	-	-
nasopharynx					1	2	3	4	5	6	7	8
<i>Corynebacterium kutscheri</i>					-	p	-	p	-	-	p	-
<i>Pasteurella multocida</i>					-	p	-	p	-	-	p	-
<i>Pasteurella pneumotropica</i>					-	p	-	p	-	-	p	-
<i>Streptococcus pneumoniae</i>					-	p	-	p	-	-	p	-

(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)