

FINAL REPORT OF LABORATORY EXAMINATION

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IDEXX BioAnalytics Case # 35718-2018

Received: 12/19/2018

Completed: 1/2/2019

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Specimen Description

Species: mouse  
Description: Live sentinel mice  
Number of Specimens/Animals: 10  
Building/Facility: Discovery Ridge  
Area: W116, W113, W114

Client ID	Investigator	Room #	Strain /Breed	Sex	Rack	Date Placed
116-A	Franklin	W116	CR ATH HE	F	1	9/17/2018
116-B	Franklin	W116	CR ATH HE	F	2	9/17/2018
116-C	Franklin	W116	CR ATH HE	F	3	9/17/2018
116-D	Franklin	W116	CR ATH HE	F	4	9/17/2018
116-F	Franklin	W116	CR ATH HE	F	6	9/17/2018
113-A	Bryda	W113	CR ATH HE	F	2	9/17/2018
113-B	Bryda	W113	CR ATH HE	F	3	9/17/2018
113-C	Bryda	W113	CR ATH HE	F	4	9/17/2018
113-D	Bryda	W113	CR ATH HE	F	5	9/17/2018
113-E	Bryda	W113	CR ATH HE	F	6	9/17/2018

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*, *Streptococcus sp.* beta hemolytic Group A, *Streptococcus sp.* beta hemolytic Group B, *Streptococcus sp.* beta hemolytic Group C, *Streptococcus sp.* beta hemolytic Group G

**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:** Discovery Ridge - 2018 Q4 'A' room sentinel mice necropsies

**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

	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
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	N	N	N	N

	113-E
CAR bacillus	-
<i>Encephalitozoon cuniculi</i>	-
Ectromelia	-
EDIM	-
LCMV	-
LDEV	-
<i>Mycoplasma pulmonis</i>	-
MAV1	-
MAV2	-
MCMV	-
MHV	-

	113-E
MNV	-
MPV	-
MVM	-
Polyoma	-
PVM	-
REO3	-
TMEV	-
Sendai	-
<i>Clostridium piliforme</i>	-
Mouse IgG	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	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<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>	-	-	-	-	-	-	-	-	-

feces	113-E
<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	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<i>Mycoplasma pulmonis</i>	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group A	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group B	-	-	-	-	-	-	-	-	-
<i>Streptococcus</i> sp. beta hemolytic Group C	-	-	-	-	-	-	-	-	-

oral swab	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<i>Streptococcus</i> sp. beta hemolytic Group G	-	-	-	-	-	-	-	-	-

oral swab	113-E
<i>Mycoplasma pulmonis</i>	-
<i>Streptococcus</i> sp. beta hemolytic Group A	-
<i>Streptococcus</i> sp. beta hemolytic Group B	-
<i>Streptococcus</i> sp. beta hemolytic Group C	-
<i>Streptococcus</i> sp. beta hemolytic Group G	-

Legend: + = positive - = negative id:id = pooled sample range id+id+id = non-range pooled sample NT or blank = no test performed wps = weak positive Testing in progress

## PARASITOLOGY

	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
parasites	-	-	-	-	-	-	-	-	-

	113-E
parasites	-

## MICROBIOLOGY

Specimen/Source: cecum

Isolate	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<i>Citrobacter rodentium</i>	-	-	-	-	-	-	-	-	-
<i>Klebsiella oxytoca</i>	-	-	-	-	-	-	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-	-	-	-	-	-	-
<i>Salmonella enterica</i>	-	-	-	-	-	-	-	-	-

Specimen/Source: cecum

Isolate	113-E
<i>Citrobacter rodentium</i>	-
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
<i>Salmonella enterica</i>	-

Specimen/Source: nasopharynx

Isolate	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<i>Corynebacterium kutscheri</i>	-	-	-	-	-	-	-	-	-
<i>Pasteurella multocida</i>	-	-	-	-	-	-	-	-	-

Isolate	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-	-	-	-	-	-	-	-
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-	-	-	-	-	-	-	-
<i>Streptococcus pneumoniae</i>	-	-	-	-	-	-	-	-	-

Specimen/Source: nasopharynx

Isolate	113-E
<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	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
<b>CAR bacillus</b>										
CAR bacillus purified bacteria	MFI > 3.750	-	-	-	-	-	-	-	-	-
<b>Encephalitozoon cuniculi</b>										
<i>E. cuniculi</i> purified antigen	MFI > 1.200	-	-	-	-	-	-	-	-	-
<b>Ectromelia</b>										
Ectromelia purified virus	MFI > 2.000	-	-	-	-	-	-	-	-	-
<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 > 4.500	-	-	-	-	-	-	-	-	-
<b>Mycoplasma pulmonis</b>										
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-	-	-	-	-	-	-	-	-
<b>MAV1</b>										
MAV1 purified virus	MFI > 3.750	-	-	-	-	-	-	-	-	-
<b>MAV2</b>										
MAV2 purified virus	MFI > 4.500	-	-	-	-	-	-	-	-	-
<b>MCMV</b>										
MCMV purified virus	MFI > 3.500	-	-	-	-	-	-	-	-	-
<b>MHV</b>										
MHV purified virus	MFI > 2.500	-	-	-	-	-	-	-	-	-
MHV NC recombinant	MFI > 2.500	-	-	-	-	-	-	-	-	-
<b>MNV</b>										
MNV purified virus	MFI > 3.000	-	-	-	-	+4	-	-	-	-

If you have questions, please call our toll free number at 1-800-669-0825 or e-mail us at [IdxBioAnalytics@idexx.com](mailto:IdxBioAnalytics@idexx.com).

	Baseline	116-A	116-B	116-C	116-D	116-F	113-A	113-B	113-C	113-D
MNV VP1 recombinant	MFI > 4.000	-	-	-	-	-	-	-	-	-
MNV virus	IFA					-				
<b>MPV</b>										
MPV VP2 recombinant	MFI > 2.000	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-

	Baseline	113-E
<b>CAR bacillus</b>		
CAR bacillus purified bacteria	MFI > 3.750	-
<b><i>Encephalitozoon cuniculi</i></b>		
<i>E. cuniculi</i> purified antigen	MFI > 1.200	-
<b>Ectromelia</b>		
Ectromelia purified virus	MFI > 2.000	-
<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 > 4.500	-
<b><i>Mycoplasma pulmonis</i></b>		
<i>M. pulmonis</i> purified bacteria	MFI > 4.250	-



	Baseline	113-E
<b>MAV1</b>		
MAV1 purified virus	MFI > 3.750	-
<b>MAV2</b>		
MAV2 purified virus	MFI > 4.500	-
<b>MCMV</b>		
MCMV purified virus	MFI > 3.500	-
<b>MHV</b>		
MHV purified virus	MFI > 2.500	-
MHV NC recombinant	MFI > 2.500	-
<b>MNV</b>		
MNV purified virus	MFI > 3.000	-
MNV VP1 recombinant	MFI > 4.000	-
MNV virus	IFA	
<b>MPV</b>		
MPV VP2 recombinant	MFI > 2.000	-
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 BioAnalytics Case # 36268-2018

Received: 12/20/2018

Completed: 12/27/2018

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**Specimen Description**

Species: mouse  
Description: 3 mouse fur mite swabs  
Number of Specimens/Animals: 3  
Building/Facility: Discovery Ridge  
Area: W113, W114, W116

ID	Client ID	Investigator	Room #
1	W113 mouse fur mite swab	Bryda	W113
2	W114 fur mite swab	Bryda	W114
3	W116 fur mite swab	Bryda	W116

**Services/Tests Performed:** Fur Mite

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

**General Comments:** Quarterly fur mite testing.AO

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

## PCR EVALUATION

pelt swab	1	2	3
<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 Testing in progress