



Animal Health Monitoring Report

Barrier Area: **4b (Rat)**

Date report issued: **04-Mar-21**

ORGANISMS MONITORED AND EXCLUDED

Viruses

Pneumonia Virus of Mice
 Rat Theilovirus
 Sendai Virus
 Mouse Adenovirus Type 1 & 2
 Sialodacryoadenitis/ Rat Corona Virus
 Rat Parvoviruses (RPV, RMV, KRV, H1)**
 Lymphocytic Choriomeningitis Virus
 Hantaan (Korean Haemorrhagic Fever)
 Reovirus -3
 Rat Rotavirus

Bacteria and Fungi

CAR bacillus
Clostridium piliforme
Mycoplasma pulmonis
Helicobacter spp. *
Streptococcus pneumoniae
Pasteurella pneumotropica
Salmonella spp.
Bordetella bronchiseptica
Corynebacterium kutscheri
Streptobacillus moniliformis

Parasites and Protozoa

Arthropods (Fur mites, lice, fleas)
 Nematodes (pinworms)
 Cestodes
 Protozoa: *Giardia muris*, *Spiroucleus muris*, *Tritrichomonas muris*, *Entamoeba muris*
Encephalitozoon cuniculi

ORGANISMS MONITORED BUT NOT EXCLUDED:

Pneumocystis carinii
Staphylococcus aureus
Streptococcus sp. beta hemolytic Groups A, B or C
Klebsiella oxytoca
Klebsiella pneumoniae
Citrobacter rodentium
Pseudomonas aeruginosa

Rat					
Last Test Date	Results	Past 18 Months		Testing method	Testing frequency
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	a
08-Feb-21	0 / 2	0 / 26		E	a
08-Feb-21	0 / 2	0 / 26		E	a
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 100		H	q
08-Feb-21	0 / 4	0 / 100		DH	q
08-Feb-21	0 / 4	0 / 100		DH	q
08-Feb-21	0 / 4	0 / 100		CH	a
08-Feb-21	0 / 4	0 / 100		DH	a
08-Feb-21	0 / 4	0 / 100		DH	a
08-Feb-21	0 / 4	0 / 100		DH	a
08-Feb-21	0 / 1	0 / 94		BH	q
08-Feb-21	0 / 4	0 / 100		FGH	q
08-Feb-21	0 / 4	0 / 100		FGH	q
08-Feb-21	0 / 4	0 / 100		FH	q
08-Feb-21	0 / 2	0 / 26		E	q
08-Feb-21	0 / 2	0 / 26		HE	q
08-Feb-21	0 / 4	0 / 100		DH	q
08-Feb-21	0 / 4	0 / 100		DH	q
08-Feb-21	0 / 4	0 / 100		CH	a
08-Feb-21	0 / 4	0 / 100		CH	a
08-Feb-21	0 / 4	0 / 100		CH	a
08-Feb-21	0 / 4	0 / 100		CH	a

Notes:

* *Helicobacter* species tested includes *H.hepaticus*, *H.bilis*, *H.rodentium*, *H.ganmani*, *H.mastomyrinus* and *H.typhlonius*.

** Rat parvoviruses tested include PRV, RMV, KRV and H1. RPV = Rat parvovirus RMV = Rat minute virus KRV = Kilham rat virus H1= Toolhan's H1 virus

Testing methods:

A, Gross Pathology/histopathology. B, Pelt examination. C, Bacterial selective culture intestine.
 D, Bacterial selective culture respiratory tract/oropharynx. E, Serology ELISA/MFI/IFA. F, Microscopy intestine. G, Faecal flotation.
 H, Polymerase chain reaction assay on pooled samples. I, Dermatophyte culture. J, General bacterial culture any site.

Minimum testing frequency: m= monthly. q= quarterly. ta= triannual. a= annually.

Results are presented as the no. positive results / no. animals tested on the date listed.

NT = Not Tested (not a recognised pathogen in this species) For details of testing program see www.arc.wa.gov.au

Area populated: 04-Nov-20

For strains in area refer to www.arc.wa.gov.au → Quick Links → Strain Location Health Report → ARC Strains held in each Production Area

Report reviewed by: Dr. Lydia Pethick, BSc BVMS MANZCVS (Laboratory Animals), Veterinary Services and Quality Control Manager

FINAL REPORT OF LABORATORY EXAMINATION

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IDEXX BioAnalytics Case # 6193-2021

Received Date: 2/22/2021

Client Case # Case 8

Completed: 2/24/2021

Submitted By

Ibrahim Faseeh
 Animal Resources Centre
 PO Box 1180
 Canning Vale, AU-WA 6970
 Australia

Phone: 08 9332 5033
 Fax: 08 9310 2839
 Email: QCclab@arc.wa.gov.au

Specimen Description

Species: rat
 Breed/Strain: F344/Arc & WKY/NCrIArc
 Description: Dry Oral Swab; Feces; Opti-Spot; Pelt Swab; Opti-Spot strip(s)
 Number of Specimens/Animals: 3
 Area: 4b

Client ID	Room #	Species	Strain /Breed				
33-1	33	rat	F344/Arc & WKY/NCrIArc	8/2/2021	OS	1	1
33-2	33	rat	F344/Arc & WKY/NCrIArc	8/2/2021	OS	1	1
33-FP,DOS,FS	33	rat	F344/Arc & WKY/NCrIArc	8/2/2021	FP,DOS,FS	4	3

Services/Tests Performed: *Corynebacterium bovis* (3); Boone Cardiovirus (3); *Ornithonyssus* spp. (3); ARC R-Annual Panel (1-2); *Demodex musculi* (3); RPyV2 (1-2); ARC Annual PCR Panel - Bacteria only (3)

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, *Pneumocystis carinii*, CAR bacillus, H1, Hantaan, IDIR, KRV, LCMV, MAV1, MAV2, PVM, Rat polyomavirus 2, RCV/SDAV, REO3, RMV, RPV, RTV, Sendai, *Encephalitozoon cuniculi*

PCR evaluation for: Boone Cardiovirus, *Bordetella bronchiseptica*, *Citrobacter rodentium*, *Corynebacterium bovis*, *Corynebacterium kutscheri*, *Demodex musculi*, *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Ornithonyssus* spp., *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Pseudomonas aeruginosa*, *Salmonella* spp., *Staphylococcus aureus*, *Streptobacillus moniliformis*, *Streptococcus pneumoniae*, *Streptococcus* sp. beta hemolytic Group A, *Streptococcus* sp. beta hemolytic Group B, *Streptococcus* sp. beta hemolytic Group C, *Streptococcus* sp. beta

hemolytic Group G

General Comments: Tracking: 772892606359

Summary: All test results were negative.

SEROLOGY SUMMARY

	33-1	33-2
CAR bacillus	-	-
<i>Encephalitozoon cuniculi</i>	-	-
IDIR	-	-
Hantaan	-	-
LCMV	-	-
<i>Mycoplasma pulmonis</i>	-	-
MAV1	-	-
MAV2	-	-
<i>Pneumocystis carinii</i>	-	-
RPV	-	-
RMV	-	-
KRV	-	-
H1	-	-
PVM	-	-
Rat polyomavirus 2	-	-
RCV/SDAV	-	-
REO3	-	-
RTV	-	-
Sendai	-	-
<i>Clostridium piliforme</i>	-	-
Rat IgG	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	33-FP,DOS,FS
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
Boone Cardiovirus	-
<i>Citrobacter rodentium</i>	-
<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	33-FP,DOS,FS
<i>Pseudomonas aeruginosa</i>	-
<i>Salmonella</i> spp.	-

oral swab	33-FP,DOS,FS
<i>Bordetella bronchiseptica</i>	-
<i>Corynebacterium kutscheri</i>	-
<i>Pasteurella pneumotropica</i> biotype Jawetz	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-
<i>Staphylococcus aureus</i>	-
<i>Streptobacillus moniliformis</i>	-
<i>Streptococcus pneumoniae</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	-

pelt swab	33-FP,DOS,FS
<i>Corynebacterium bovis</i>	-
<i>Demodex musculi</i>	-
<i>Ornithonyssus</i> spp.	-

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

Animal Resources Centre

Murdoch University Veterinary Hospital Submission Form. Patient Number:101282

Address: PO Box 1180 Canning Vale 6970, Western Australia
 Telephone: (08) 9332 5033
 Fax: (08) 9310 2839
 Email: vet@arc.wa.gov.au, Lydia.Pethick@arc.wa.gov.au, QCLab@arc.wa.gov.au
 Submitting Veterinarian: Lydia Pethick

Parasitology visit No. Parasitology No 10/21

Date Collected : 8/02/2021

Date Submitted : 8/02/2021

Sample ID	Area	Room	Species	Strain	Age	Sample type	No. Tubes	No. specimens per tube	Test Requested	Results	Comments
30 C	4b	30	Mouse	B10.BR.Ly5.1	>8 weeks	Caecum	1	2	Parasitology	Negative	
30 F	4b	30	Mouse	B10.BR.Ly5.1	>8 weeks	Faeces	1	2	Parasitology	Negative	
30 Skin	4b	30	Mouse	B10.BR.Ly5.1	>8 weeks	Skin	1	1	Parasitology	Negative	
33 C	4b	33	rat	F344/Arc & WKY/NCrlArc	>8 weeks	Caecum	1	4	Parasitology	Negative	
33 F	4b	33	rat	F344/Arc & WKY/NCrlArc	>8 weeks	Faeces	1	4	Parasitology	Negative	
33 S	4b	33	rat	F344/Arc & WKY/NCrlArc	>8 weeks	Skin	1	1	Parasitology	Negative	

Comments:

Faeces screen for:

Protozoa (Spiroplasma muris, Entamoeba muris, Tritrichomonas sp., Giardia sp., Chilomastix sp., Hexamastix sp & any other protozoa)

Pinworms (Syphacia muris, Syphacia obvelata, Aspiculuris tetraptera & any other pinworms)

Caecum screen for:

Tapeworms (Hymenolepis diminuta, Rodentolepis nana & any other tapeworms)

Skin screen for:

Arthropods (Diptera, Phthiraptera, Siphonaptera, Hemiptera)

Mites (Mycopetes, Myobia, Radfordia, Demodex, Laelaps echidninus, Liponyssoides sanguineus, Notoedres muris, Ornithonyssus bacoti)



Animal Health Monitoring Report

Barrier Area: 4b (Rat)

Date report issued: 02-Jun-21

ORGANISMS MONITORED AND EXCLUDED

Viruses

Pneumonia Virus of Mice
 Rat Theilovirus
 Sendai Virus
 Mouse Adenovirus Type 1 & 2
 Sialodacryoadenitis/ Rat Corona Virus
 Rat Parvoviruses (RPV, RMV, KRV, H1)**
 Lymphocytic Choriomeningitis Virus
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 Rat Rotavirus

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CAR bacillus
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Parasites and Protozoa

Arthropods (Fur mites, lice, fleas)
 Nematodes (pinworms)
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 Protozoa: Giardia muris, Spiroucleus muris, Tritrichomonas muris, Entamoeba muris
 Encephalitozoon cuniculi

ORGANISMS MONITORED BUT NOT EXCLUDED:

Pneumocystis carinii
 Staphylococcus aureus
 Streptococcus sp. beta hemolytic Groups A, B or C
 Klebsiella oxytoca
 Klebsiella pneumoniae
 Citrobacter rodentium
 Pseudomonas aeruginosa

Rat					
Last Test Date	Results	Past 18 Months		Testing method	Testing frequency
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
08-Feb-21	0 / 2	0 / 20		E	a
08-Feb-21	0 / 2	0 / 20		E	a
08-Feb-21	0 / 2	0 / 20		E	a
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 20	0 / 90		H	q
11-May-21	0 / 20	0 / 90		DH	q
11-May-21	0 / 20	0 / 90		DH	q
08-Feb-21	0 / 4	0 / 70		CH	a
08-Feb-21	0 / 4	0 / 70		DH	a
08-Feb-21	0 / 4	0 / 70		DH	a
08-Feb-21	0 / 4	0 / 70		DH	a
11-May-21	0 / 20	0 / 84		BH	q
11-May-21	0 / 20	0 / 90		FGH	q
11-May-21	0 / 20	0 / 90		FGH	q
11-May-21	0 / 20	0 / 90		FH	q
11-May-21	0 / 4	0 / 24		E	q
11-May-21	0 / 4	0 / 24		HE	q
11-May-21	0 / 20	0 / 90		DH	q
11-May-21	0 / 20	0 / 90		DH	q
08-Feb-21	0 / 4	0 / 70		CH	a
08-Feb-21	0 / 4	0 / 70		CH	a
08-Feb-21	0 / 4	0 / 70		CH	a
08-Feb-21	0 / 4	0 / 70		CH	a

Notes:

* Helicobacter species tested includes H.hepaticus, H.bilis, H.rodentium, H.ganmani, H.mastomyrinus and H.typhlonius.

** Rat parvoviruses tested include PRV, RMV, KRV and H1. RPV = Rat parvovirus RMV = Rat minute virus KRV = Kilham rat virus H1= Toolhan's H1 virus

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Area populated: 04-Nov-20

For strains in area refer to www.arc.wa.gov.au → Quick Links → Strain Location Health Report → ARC Strains held in each Production Area

Report reviewed by: Dr. Lydia Pethick, BSc BVMS MANZCVS (Laboratory Animals), Veterinary Services and Quality Control Manager

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

1-800-669-0825 1-573-499-5700

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www.idexxbioanalytics.com

IDEXX BioAnalytics Case # 15868-2021

Received Date: 5/21/2021

Client Case # Case 2

Completed: 5/26/2021

Submitted By

Ibrahim Faseeh

Phone: 08 9332 5033

Animal Resources Centre

Fax: 08 9310 2839

PO Box 1180

Email: QClab@arc.wa.gov.au

Canning Vale, AU-WA 6970

Australia

Specimen Description

Species: rat

Breed/Strain: F344/Arc; NTac:SD

Description: Dry Oral Swab; Feces; Opti-Spot; Pelt

Swab; Opti-Spot strip(s)

Number of Specimens/Animals: 6

Area: 4b

Client ID	Room #	Species	Strain /Breed				
32-1	32	rat	NTac:SD	11/5/2021	OS	1	1
32-2	32	rat	NTac:SD	11/5/2021	OS	1	1
33-1	33	rat	F344/Arc	11/5/2021	OS	1	1
33-2	33	rat	F344/Arc	11/5/2021	OS	1	1
32-FP,DOS,FS	32	rat	NTac:SD	11/5/2021	FP,DOS,FS	10	3
33-FP,DOS,FS	33	rat	F344/Arc	11/5/2021	FP,DOS,FS	10	3

Services/Tests Performed: Segmented filamentous bacterium (5-6); ARC R-Quarterly Panel (1-4); ARC Quarterly PCR Panel (5-6)

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, *Pneumocystis carinii*, CAR bacillus, H1, KRV, LCMV, MAV1, MAV2, PVM, RCV/SDAV, RMV, RPV, RTV, Sendai, *Encephalitozoon cuniculi*

PCR evaluation for: *Aspicularis tetraptera*, *Cryptosporidium* spp., *Entamoeba muris*, *Giardia muris*, *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Hymenolepis diminuta*, *Myocoptes*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Radfordia/Myobia*, *Rodentolepis nana*, Segmented filamentous bacterium, *Spironucleus muris*, *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Streptococcus* sp. beta hemolytic Group A, *Streptococcus* sp. beta hemolytic Group B, *Streptococcus* sp. beta hemolytic Group C, *Streptococcus* sp. beta hemolytic Group G, *Syphacia muris*, *Syphacia obvelata*, *Trichomonas muris*

General Comments: Tracking: 773722887105

Summary: Positive results were found for the following PCR agents:
Segmented filamentous bacterium

Please see the report for details.

SEROLOGY SUMMARY

	32-1	32-2	33-1
CAR bacillus	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-
LCMV	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-
MAV1	-	-	-
MAV2	-	-	-
<i>Pneumocystis carinii</i>	-	-	-
RPV	-	-	-
RMV	-	-	-
KRV	-	-	-
H1	-	-	-
PVM	-	-	-
RCV/SDAV	-	-	-
RTV	-	-	-
Sendai	-	-	-
<i>Clostridium piliforme</i>	-	-	-
Rat IgG	N	N	N

	33-2
CAR bacillus	-
<i>Encephalitozoon cuniculi</i>	-
LCMV	-
<i>Mycoplasma pulmonis</i>	-
MAV1	-
MAV2	-
<i>Pneumocystis carinii</i>	-
RPV	-
RMV	-
KRV	-
H1	-
PVM	-
RCV/SDAV	-
RTV	-
Sendai	-
<i>Clostridium piliforme</i>	-
Rat 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	32-FP,DOS,FS	33-FP,DOS,FS
<i>Cryptosporidium</i> spp.	-	-
<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>	-	-
Segmented filamentous bacterium	+	+
<i>Entamoeba muris</i>	-	-
<i>Giardia muris</i>	-	-
<i>Spironucleus muris</i>	-	-
<i>Tritrichomonas muris</i>	-	-
<i>Rodentolepis nana</i>	-	-
<i>Hymenolepis diminuta</i>	-	-
<i>Aspiculuris tetraptera</i>	-	-
<i>Syphacia muris</i>	-	-
<i>Syphacia obvelata</i>	-	-

oral swab	32-FP,DOS,FS	33-FP,DOS,FS
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-
<i>Staphylococcus aureus</i>	-	-
<i>Streptococcus pneumoniae</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	-	-

pelt swab	32-FP,DOS,FS	33-FP,DOS,FS
<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 sus = suspect wps = weak positive XX = Testing in progress



Animal Health Monitoring Report

Barrier Area: 4b (Rat)

Date report issued: 26-Aug-21

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Viruses

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Encephalitozoon cuniculi

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Pseudomonas aeruginosa

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12-Aug-21	0 / 4	0 / 22		E	q
12-Aug-21	0 / 4	0 / 22		E	q
12-Aug-21	0 / 4	0 / 22		E	q
08-Feb-21	0 / 2	0 / 14		E	a
08-Feb-21	0 / 2	0 / 14		E	a
08-Feb-21	0 / 2	0 / 14		E	a
12-Aug-21	0 / 4	0 / 22		E	q
12-Aug-21	0 / 4	0 / 22		E	q
12-Aug-21	0 / 4	0 / 22		E	q
12-Aug-21	0 / 20	0 / 104		H	q
12-Aug-21	0 / 20	0 / 104		DH	q
12-Aug-21	0 / 20	0 / 104		DH	q
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		DH	a
08-Feb-21	0 / 4	0 / 64		DH	a
08-Feb-21	0 / 4	0 / 64		DH	a
12-Aug-21	0 / 20	0 / 101		BH	q
12-Aug-21	0 / 20	0 / 104		FGH	q
12-Aug-21	0 / 20	0 / 104		FGH	q
12-Aug-21	0 / 20	0 / 104		FH	q
12-Aug-21	0 / 4	0 / 22		E	q
12-Aug-21	0 / 4	0 / 22		HE	q
12-Aug-21	0 / 20	0 / 104		DH	q
12-Aug-21	0 / 20	0 / 104		DH	q
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		CH	a

Notes:

* *Helicobacter* species tested includes *H.hepaticus*, *H.bilis*, *H.rodentium*, *H.ganmani*, *H.mastomyrinus* and *H.typhlonius*.

** Rat parvoviruses tested include PRV, RMV, KRV and H1. RPV = Rat parvovirus RMV = Rat minute virus KRV = Kilham rat virus H1= Toolhan's H1 virus

Testing methods:

A, Gross Pathology/histopathology. B, Pelt examination. C, Bacterial selective culture intestine.
 D, Bacterial selective culture respiratory tract/oropharynx. E, Serology ELISA/MFI/IFA. F, Microscopy intestine. G, Faecal flotation.
 H, Polymerase chain reaction assay on pooled samples. I, Dermatophyte culture. J, General bacterial culture any site.

Minimum testing frequency: m= monthly. q= quarterly. ta= triannual. a= annually.

Results are presented as the no. positive results / no. animals tested on the date listed.

NT = Not Tested (not a recognised pathogen in this species) For details of testing program see www.arc.wa.gov.au

Area populated: 04-Nov-20

For strains in area refer to www.arc.wa.gov.au → Quick Links → Strain Location Health Report → ARC Strains held in each Production Area

Report reviewed by: Dr. Lydia Pethick, BSc BVMS MANZCVS (Laboratory Animals), Veterinary Services and Quality Control Manager

FINAL REPORT OF LABORATORY EXAMINATION

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IDEXX BioAnalytics Case # 25201-2021

Received Date: 8/19/2021

Client Case # Case 4

Completed: 8/23/2021

Submitted By

Ibrahim Faseeh

Phone: 08 9332 5033

Animal Resources Centre

Fax: 08 9310 2839

PO Box 1180

Email: QClab@arc.wa.gov.au

Canning Vale, AU-WA 6970

Australia

Specimen Description

Species: rat

Breed/Strain: DA/Arc; PVG/cArc

Description: Dry Oral Swab; Feces; Opti-Spot; Pelt

Swab; Opti-Spot strip(s)

Number of Specimens/Animals: 6

Area: 4b

Client ID	Room #	Species	Strain /Breed				
32-1	32	rat	DA/Arc	12/8/2021	OS	1	1
32-2	32	rat	DA/Arc	12/8/2021	OS	1	1
33-1	33	rat	PVG/cArc	12/8/2021	OS	1	1
33-2	33	rat	PVG/cArc	12/8/2021	OS	1	1
32-FP,DOS,FS	32	rat	DA/Arc	12/8/2021	FP,DOS,FS	10	3
33-FP,DOS,FS	33	rat	PVG/cArc	12/8/2021	FP,DOS,FS	10	3

Services/Tests Performed: ARC R-Quarterly Panel (1-4); ARC Quarterly PCR Panel (5-6)

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, *Pneumocystis carinii*, CAR bacillus, H1, KRV, LCMV, MAV1, MAV2, PVM, RCV/SDAV, RMV, RPV, RTV, Sendai, *Encephalitozoon cuniculi*

PCR evaluation for: *Aspicularis tetraptera*, *Cryptosporidium* spp., *Entamoeba muris*, *Giardia muris*, *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Hymenolepis diminuta*, *Myocoptes*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Radfordia/Myobia*, *Rodentolepis nana*, *Spironucleus muris*, *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Streptococcus* sp. beta hemolytic Group A, *Streptococcus* sp. beta hemolytic Group B, *Streptococcus* sp. beta hemolytic Group C, *Streptococcus* sp. beta hemolytic Group G, *Syphacia muris*, *Syphacia obvelata*, *Tritrichomonas muris*

General Comments: Tracking: 774525732128

Summary: All test results were negative.

SEROLOGY SUMMARY

	32-1	32-2	33-1
CAR bacillus	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-
LCMV	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-
MAV1	-	-	-
MAV2	-	-	-
<i>Pneumocystis carinii</i>	-	-	-
RPV	-	-	-
RMV	-	-	-
KRV	-	-	-
H1	-	-	-
PVM	-	-	-
RCV/SDAV	-	-	-
RTV	-	-	-
Sendai	-	-	-
<i>Clostridium piliforme</i>	-	-	-
Rat IgG	N	N	N

	33-2
CAR bacillus	-
<i>Encephalitozoon cuniculi</i>	-
LCMV	-
<i>Mycoplasma pulmonis</i>	-
MAV1	-
MAV2	-
<i>Pneumocystis carinii</i>	-
RPV	-
RMV	-
KRV	-
H1	-
PVM	-
RCV/SDAV	-
RTV	-
Sendai	-
<i>Clostridium piliforme</i>	-
Rat 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	32-FP,DOS,FS	33-FP,DOS,FS
<i>Cryptosporidium</i> spp.	-	-
<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>	-	-
<i>Entamoeba muris</i>	-	-
<i>Giardia muris</i>	-	-
<i>Spironucleus muris</i>	-	-
<i>Tritrichomonas muris</i>	-	-
<i>Rodentolepis nana</i>	-	-
<i>Hymenolepis diminuta</i>	-	-
<i>Aspiculuris tetraptera</i>	-	-
<i>Syphacia muris</i>	-	-
<i>Syphacia obvelata</i>	-	-

oral swab	32-FP,DOS,FS	33-FP,DOS,FS
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-
<i>Staphylococcus aureus</i>	-	-
<i>Streptococcus pneumoniae</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	-	-

pelt swab	32-FP,DOS,FS	33-FP,DOS,FS
<i>Myocoptes</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 sus = suspect wps = weak positive XX = Testing in progress



Animal Health Monitoring Report

Barrier Area: **4b (Rat)**

Date report issued: **22-Dec-21**

ORGANISMS MONITORED AND EXCLUDED

Viruses

Pneumonia Virus of Mice
Rat Theilovirus
Sendai Virus
Mouse Adenovirus Type 1 & 2
Sialodacryoadenitis/ Rat Corona Virus
Rat Parvoviruses (RPV, RMV, KRV, H1)**
Lymphocytic Choriomeningitis Virus
Hantaan (Korean Haemorrhagic Fever)
Reovirus -3
Rat Rotavirus

Bacteria and Fungi

CAR bacillus
Clostridium piliforme
Mycoplasma pulmonis
Helicobacter spp. *
Streptococcus pneumoniae
Pasteurella pneumotropica
Salmonella spp.
Bordetella bronchiseptica
Corynebacterium kutscheri
Streptobacillus moniliformis

Parasites and Protozoa

Arthropods (Fur mites, lice, fleas)
Nematodes (pinworms)
Cestodes
Protozoa: *Giardia muris*, *Spironucleus muris*, *Tritrichomonas muris*,
Entamoeba muris
Encephalitozoon cuniculi

ORGANISMS MONITORED BUT NOT EXCLUDED:

Pneumocystis carinii
*Staphylococcus aureus*¹
Streptococcus sp. beta hemolytic Groups A, B or C
Klebsiella oxytoca
Klebsiella pneumoniae
Citrobacter rodentium
Pseudomonas aeruginosa

Last Test Date	Results	Rat		Testing method	Testing frequency
		Past 18 Months			
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
08-Feb-21	0 / 2	0 / 14		E	a
08-Feb-21	0 / 2	0 / 14		E	a
08-Feb-21	0 / 2	0 / 14		E	a
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 20	0 / 124		H	q
11-Nov-21	0 / 20	0 / 124		DH	q
11-Nov-21	0 / 20	0 / 124		DH	q
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		DH	a
08-Feb-21	0 / 4	0 / 64		DH	a
08-Feb-21	0 / 4	0 / 64		DH	a
11-Nov-21	0 / 20	0 / 121		BH	q
11-Nov-21	0 / 20	0 / 124		FGH	q
11-Nov-21	0 / 20	0 / 124		FGH	q
11-Nov-21	0 / 20	0 / 124		FH	q
11-Nov-21	0 / 4	0 / 26		E	q
11-Nov-21	0 / 4	0 / 26		HE	q
11-Nov-21	10 / 20	10 / 124		DH	q
11-Nov-21	0 / 20	0 / 124		DH	q
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		CH	a
08-Feb-21	0 / 4	0 / 64		CH	a

Notes:

¹ This agent is an opportunistic agent. Finding it as a component of the normal flora of a healthy laboratory rodent is of minimal significance. Generally, colonisation of a healthy, asymptomatic animal with this agent does not affect its suitability for use in research, surgery or teaching. Samples are pooled PCR. For more information, please contact Animal Resources Centre + 61 8 9332 5033

* *Helicobacter* species tested includes *H.hepaticus*, *H.bilis*, *H.rodentium*, *H.ganmani*, *H.mastomyrinus* and *H.typhlonius*.

** Rat parvoviruses tested include PRV, RMV, KRV and H1. RPV = Rat parvovirus RMV = Rat minute virus KRV = Kilham rat virus H1= Toolhan's H1 virus

Testing methods:

A, Gross Pathology/histopathology. B, Pelt examination. C, Bacterial selective culture intestine.
D, Bacterial selective culture respiratory tract/oropharynx. E, Serology ELISA/MFI/IFA. F, Microscopy intestine. G, Faecal flotation.
H, Polymerase chain reaction assay on pooled samples. I, Dermatophyte culture. J, General bacterial culture any site.

Minimum testing frequency: m= monthly. q= quarterly. ta= triannual. a= annually.

Results are presented as the no. positive results / no. animals tested on the date listed.

NT = Not Tested (not a recognised pathogen in this species) For details of testing program see www.arc.wa.gov.au

Area populated: 04-Nov-20

For strains in area refer to www.arc.wa.gov.au → Quick Links → Strain Location Health Report → ARC Strains held in each Production Area

Report reviewed by: Dr. Barry Savage BSc BVMS (Hons.) Veterinary Services Manager

FINAL REPORT OF LABORATORY EXAMINATION

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IDEXX BioAnalytics Case # 34869-2021

Received Date: 11/22/2021

Client Case # Case 3

Completed: 11/30/2021

Submitted By

Ibrahim Faseeh

Phone: 08 9332 5033

Animal Resources Centre

Fax: 08 9310 2839

PO Box 1180

Email: QClab@arc.wa.gov.au

Canning Vale, AU-WA 6970

Australia

Specimen Description

Species: rat

Breed/Strain: DA/Arc; WKY/NCrI Arc

Description: Dry Oral Swab; Feces; Opti-Spot; Pelt

Swab; Opti-Spot strip(s)

Number of Specimens/Animals: 6

Area: 4b

Client ID	Room #	Species	Strain /Breed				
32-1	32	rat	DA/Arc	11/11/2021	OS	1	1
32-2	32	rat	DA/Arc	11/11/2021	OS	1	1
33-1	33	rat	PVG/c	11/11/2021	OS	1	1
33-2	33	rat	PVG/c	11/11/2021	OS	1	1
32-FP,DOS,FS	32	rat	DA/Arc	11/11/2021	FP,DOS,FS	10	3
33-FP,DOS,FS	33	rat	WKY/NCrI Arc	11/11/2021	FP,DOS,FS	10	3

Services/Tests Performed: ARC R-Quarterly Panel (1-4); ARC Quarterly PCR Panel (5-6)

Serologic evaluation for antibodies to: *Clostridium piliforme*, *Mycoplasma pulmonis*, *Pneumocystis carinii*, CAR bacillus, H1, KRV, LCMV, MAV1, MAV2, PVM, RCV/SDAV, RMV, RPV, RTV, Sendai, *Encephalitozoon cuniculi*

PCR evaluation for: *Aspicularis tetraptera*, *Cryptosporidium* spp., *Entamoeba muris*, *Giardia muris*, *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Hymenolepis diminuta*, *Myocoptes*, *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Radfordia/Myobia*, *Rodentolepis nana*, *Spironucleus muris*, *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Streptococcus* sp. beta hemolytic Group A, *Streptococcus* sp. beta hemolytic Group B, *Streptococcus* sp. beta hemolytic Group C, *Streptococcus* sp. beta hemolytic Group G, *Syphacia muris*, *Syphacia obvelata*, *Tritrichomonas muris*

General Comments: Tracking: 775191526064

Summary: Positive results were found for the following PCR agents:
Staphylococcus aureus

Positive results were found for the following PCR agents:
Staphylococcus aureus

Please see the report for details.

SEROLOGY SUMMARY

	32-1	32-2	33-1
CAR bacillus	-	-	-
<i>Encephalitozoon cuniculi</i>	-	-	-
LCMV	-	-	-
<i>Mycoplasma pulmonis</i>	-	-	-
MAV1	-	-	-
MAV2	-	-	-
<i>Pneumocystis carinii</i>	-	-	-
RPV	-	-	-
RMV	-	-	-
KRV	-	-	-
H1	-	-	-
PVM	-	-	-
RCV/SDAV	-	-	-
RTV	-	-	-
Sendai	-	-	-
<i>Clostridium piliforme</i>	-	-	-
Rat IgG	N	N	N

	33-2
CAR bacillus	-
<i>Encephalitozoon cuniculi</i>	-
LCMV	-
<i>Mycoplasma pulmonis</i>	-
MAV1	-
MAV2	-
<i>Pneumocystis carinii</i>	-
RPV	-
RMV	-
KRV	-
H1	-
PVM	-
RCV/SDAV	-
RTV	-
Sendai	-
<i>Clostridium piliforme</i>	-
Rat 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	32-FP,DOS,FS	33-FP,DOS,FS
<i>Cryptosporidium</i> spp.	-	-
<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>	-	-
<i>Entamoeba muris</i>	-	-
<i>Giardia muris</i>	-	-
<i>Spironucleus muris</i>	-	-
<i>Tritrichomonas muris</i>	-	-
<i>Rodentolepis nana</i>	-	-
<i>Hymenolepis diminuta</i>	-	-
<i>Aspiculuris tetraptera</i>	-	-
<i>Syphacia muris</i>	-	-
<i>Syphacia obvelata</i>	-	-

oral swab	32-FP,DOS,FS	33-FP,DOS,FS
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-
<i>Staphylococcus aureus</i>	+	-
<i>Streptococcus pneumoniae</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	-	-

pelt swab	32-FP,DOS,FS	33-FP,DOS,FS
<i>Myocoptes</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 sus = suspect wps = weak positive XX = Testing in progress

ADDENDUM TO FINAL REPORT OF LABORATORY EXAMINATION

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IDEXX BioAnalytics Case # 34869-2021

Client Case # Case 3

Received Date: 11/22/2021

Completed: 11/30/2021

Addendum Dated: 12/6/2021

Submitted By

Ibrahim Faseeh
 Animal Resources Centre
 PO Box 1180
 Canning Vale, AU-WA 6970
 Australia

Phone: 08 9332 5033
 Fax: 08 9310 2839
 Email: QCclab@arc.wa.gov.au

PCR EVALUATION

oral swab	32-FP,DOS,FS
<i>Staphylococcus aureus</i>	+

fecal pellet(s)	32-FP,DOS,FS	33-FP,DOS,FS
<i>Staphylococcus aureus</i>	-	-

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