



Animal Health Monitoring Report

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

Date report issued: **09-Mar-22**

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

Last Test Date	Rat		Testing method	Testing frequency
	Results	Past 18 Months		
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 22	E	a
08-Feb-22	0 / 8	0 / 22	E	a
08-Feb-22	0 / 8	0 / 22	E	a
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 132	H	q
08-Feb-22	0 / 8	0 / 132	DH	q
08-Feb-22	0 / 8	0 / 132	DH	q
08-Feb-22	0 / 8	0 / 72	CH	a
08-Feb-22	0 / 8	0 / 72	DH	a
08-Feb-22	0 / 8	0 / 72	DH	a
08-Feb-22	0 / 8	0 / 72	DH	a
08-Feb-22	0 / 4	0 / 125	BH	q
08-Feb-22	0 / 4	0 / 128	FGH	q
08-Feb-22	0 / 4	0 / 128	FGH	q
08-Feb-22	0 / 4	0 / 128	FH	q
08-Feb-22	0 / 8	0 / 34	E	q
08-Feb-22	0 / 8	0 / 34	HE	q
08-Feb-22	8 / 8	18 / 132	DH	q
08-Feb-22	0 / 8	0 / 132	DH	q
08-Feb-22	0 / 8	0 / 72	CH	a
08-Feb-22	0 / 8	0 / 72	CH	a
08-Feb-22	0 / 8	0 / 72	CH	a
08-Feb-22	0 / 8	0 / 72	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 # 105237-2022

Received Date: 2/28/2022

Client Case # Case 4

Completed: 3/3/2022

Submitted By

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 Animal Resources Centre
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Specimen Description

Species: rat
 Breed/Strain: ArcCrl:CD(SD)IGS; ArcSim:LE (Long Evans); DA/Arc o
 Description: Dry Oral Swab; Feces; Opti-Spot; Pelt Swab; Opti-Spot strip(s)
 Number of Specimens/Animals: 12
 Area: 4b

Client ID	Room #	Species	Strain /Breed				
30-1	30	rat	ArcCrl:CD(SD)IGS	8/02/2022	OS	1	1
30-2	30	rat	ArcCrl:CD(SD)IGS	8/02/2022	OS	1	1
32-1	32	rat	DA/Arc or ArcCrl:WI	8/02/2022	OS	1	1
32-2	32	rat	DA/Arc or ArcCrl:WI	8/02/2022	OS	1	1
33-1	33	rat	WKY/NCrlArc	8/02/2022	OS	1	1
33-2	33	rat	WKY/NCrlArc	8/02/2022	OS	1	1
34-1	34	rat	ArcSim:LE (Long Evans)	8/02/2022	OS	1	1
34-2	34	rat	ArcSim:LE (Long Evans)	8/02/2022	OS	1	1
30-FP,DOS,FS	30	rat	ArcCrl:CD(SD)IGS	8/02/2022	FP,DOS,FS	2	3
32-FP,DOS,FS	32	rat	DA/Arc or ArcCrl:WI	8/02/2022	FP,DOS,FS	2	3
33-FP,DOS,FS	33	rat	WKY/NCrlArc	8/02/2022	FP,DOS,FS	2	3

Client ID	Room #	Species	Strain /Breed				
34-FP,DOS,FS	34	rat	ArcSim:LE (Long Evans)	8/02/2022	FP,DOS,FS	2	3

Services/Tests Performed: *Corynebacterium bovis* (9-12); Segmented filamentous bacterium (9-12); Boone Cardiovirus (9-12); *Ornithonyssus* spp. (9-12); ARC R-Annual Panel (1-8); *Demodex musculi* (9-12); RPyV2 (1-8); *Proteus mirabilis* (9-12); *Staphylococcus xylosum* (9-12); ARC Annual PCR Panel (9-12)

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: *Aspicularis tetraptera*, Boone Cardiovirus, *Bordetella bronchiseptica*, *Citrobacter rodentium*, *Corynebacterium bovis*, *Corynebacterium kutscheri*, *Cryptosporidium* spp., *Demodex musculi*, *Entamoeba muris*, *Giardia muris*, *Helicobacter bilis*, *Helicobacter ganmani*, *Helicobacter hepaticus*, *Helicobacter mastomyrinus*, *Helicobacter rodentium*, *Helicobacter* spp., *Helicobacter typhlonius*, *Hymenolepis diminuta*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Myocoptes*, *Ornithonyssus* spp., *Pasteurella pneumotropica* biotype Heyl, *Pasteurella pneumotropica* biotype Jawetz, *Proteus mirabilis*, *Pseudomonas aeruginosa*, *Radfordia/Myobia*, *Rodentolepis nana*, *Salmonella* spp., Segmented filamentous bacterium, *Spironucleus muris*, *Staphylococcus aureus*, *Staphylococcus xylosum*, *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, *Syphacia muris*, *Syphacia obvelata*, *Tritrichomonas muris*

General Comments: Tracking: 776079697555

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

Segmented filamentous bacterium

Staphylococcus aureus

Please see the report for details.

SEROLOGY SUMMARY

	30-1	30-2	32-1
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	N

	32-2	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	-	-	-

	32-2	33-1	33-2
RCV/SDAV	-	-	-
REO3	-	-	-
RTV	-	-	-
Sendai	-	-	-
<i>Clostridium piliforme</i>	-	-	-
Rat IgG	N	N	N

	34-1	34-2
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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Klebsiella oxytoca</i>	-	-	-
<i>Klebsiella pneumoniae</i>	-	-	-
Boone Cardiovirus	-	-	-
<i>Citrobacter rodentium</i>	-	-	-
<i>Cryptosporidium</i> spp.	-	-	-
<i>Helicobacter</i> spp.	-	-	-

feces	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<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>Proteus mirabilis</i>	-	-	-
<i>Pseudomonas aeruginosa</i>	-	-	-
<i>Salmonella</i> spp.	-	-	-
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>Aspicularis tetraptera</i>	-	-	-
<i>Syphacia muris</i>	-	-	-
<i>Syphacia obvelata</i>	-	-	-

feces	34-FP,DOS,FS
<i>Klebsiella oxytoca</i>	-
<i>Klebsiella pneumoniae</i>	-
Boone Coronavirus	-
<i>Citrobacter rodentium</i>	-
<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>Proteus mirabilis</i>	-
<i>Pseudomonas aeruginosa</i>	-
<i>Salmonella</i> spp.	-
Segmented filamentous bacterium	-
<i>Entamoeba muris</i>	-
<i>Giardia muris</i>	-
<i>Spironucleus muris</i>	-
<i>Tritrichomonas muris</i>	-

feces	34-FP,DOS,FS
<i>Rodentolepis nana</i>	-
<i>Hymenolepis diminuta</i>	-
<i>Aspicularis tetraptera</i>	-
<i>Syphacia muris</i>	-
<i>Syphacia obvelata</i>	-

oral swab	30-FP,DOS,FS	32-FP,DOS,FS	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	-	-	-

oral swab	34-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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Corynebacterium bovis</i>	-	-	-

pelt swab	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Staphylococcus xylosus</i>	-	-	-
<i>Mycocptes</i>	-	-	-
<i>Radfordia/Myobia</i>	-	-	-
<i>Demodex musculi</i>	-	-	-
<i>Ornithonyssus</i> spp.	-	-	-

pelt swab	34-FP,DOS,FS
<i>Corynebacterium bovis</i>	-
<i>Staphylococcus xylosus</i>	-
<i>Mycocptes</i>	-
<i>Radfordia/Myobia</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 Health Monitoring Report

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

Date report issued: **29-Jun-22**

ORGANISMS MONITORED AND EXCLUDED

Viruses

Pneumonia Virus of Mice
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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
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Bacteria and Fungi

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

ORGANISMS MONITORED BUT NOT EXCLUDED:

Pneumocystis carinii
Staphylococcus aureus¹
Streptococcus sp. beta hemolytic Groups A, B or C
Klebsiella oxytoca¹
Klebsiella pneumoniae
Citrobacter rodentium
Pseudomonas aeruginosa

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08-Feb-22	0 / 8	0 / 16	E	a
08-Feb-22	0 / 8	0 / 16	E	a
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04-May-22	0 / 40	0 / 138	FH	q
04-May-22	0 / 8	0 / 36	E	q
04-May-22	0 / 8	0 / 36	HE	q
04-May-22	40 / 40	58 / 142	DH	q
04-May-22	0 / 40	0 / 142	DH	q
04-May-22	20 / 40	20 / 82	CH	a
08-Feb-22	0 / 8	0 / 42	CH	a
08-Feb-22	0 / 8	0 / 42	CH	a
08-Feb-22	0 / 8	0 / 42	CH	a

Notes:

¹ These agents are opportunistic agents. Finding them 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

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

FINAL REPORT OF LABORATORY EXAMINATION

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IDEXX BioAnalytics Case # 114658-2022

Received Date: 5/27/2022

Client Case # Case 2

Completed: 6/3/2022

Submitted By

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 Australia

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Specimen Description

Species: rat
 Breed/Strain: ArcCrl:CD(SD)IGS; ArcCrl:WI;
 ArcSim:LE (Long Evans
 Description: Dry Oral Swab; Feces; Opti-Spot; Pelt
 Swab; Opti-Spot strip(s)
 Number of Specimens/Animals: 12
 Area: 4b

Client ID	Room #	Species	Strain /Breed				
30-1	30	rat	ArcCrl:CD(SD)IGS	4/05/2022	OS	1	1
30-2	30	rat	ArcCrl:CD(SD)IGS	4/05/2022	OS	1	1
32-1	32	rat	ArcCrl:WI	4/05/2022	OS	1	1
32-2	32	rat	ArcCrl:WI	4/05/2022	OS	1	1
33-1	33	rat	LEW/CrlArc	4/05/2022	OS	1	1
33-2	33	rat	LEW/CrlArc	4/05/2022	OS	1	1
34-1	34	rat	ArcSim:LE (Long Evans)	4/05/2022	OS	1	1
34-2	34	rat	ArcSim:LE (Long Evans)	4/05/2022	OS	1	1
30-FP,DOS,FS	30	rat	ArcCrl:CD(SD)IGS	4/05/2022	FP,DOS,FS	10	3
32-FP,DOS,FS	32	rat	ArcCrl:WI	4/05/2022	FP,DOS,FS	10	3
33-FP,DOS,FS	33	rat	LEW/CrlArc	4/05/2022	FP,DOS,FS	10	3
34-FP,DOS,FS	34	rat	ArcSim:LE (Long Evans)	4/05/2022	FP,DOS,FS	10	3

Services/Tests Performed: ARC R-Quarterly Panel (1-8); ARC Quarterly PCR Panel (9-12); *Klebsiella oxytoca* (9-12)

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: *Aspiculuris 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: 776912678223

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

Staphylococcus aureus

Please see the report for details.

SEROLOGY SUMMARY

	30-1	30-2	32-1
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

	32-2	33-1	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	N	N

	34-1	34-2
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	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	30-FP,DOS,FS	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>	-	-	-

feces	34-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	30-FP,DOS,FS	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	-	-	-

oral swab	34-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	-

oral swab	34-FP,DOS,FS
<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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Mycocoptes</i>	-	-	-
<i>Radfordia/Myobia</i>	-	-	-

pelt swab	34-FP,DOS,FS
<i>Mycocoptes</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

4011 Discovery Drive, Columbia, MO 65201

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

idxxbioanalytics@idexx.com

www.idexxbioanalytics.com

IDEXX BioAnalytics Case # 114658-2022

Client Case # Case 2

Received Date: 5/27/2022

Completed: 6/3/2022

Addendum Dated: 6/23/2022

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

fecal pellet(s)	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Klebsiella oxytoca</i>	-	+	-

fecal pellet(s)	34-FP,DOS,FS
<i>Klebsiella oxytoca</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: **24-Aug-22**

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*²
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*¹
Klebsiella pneumoniae
Citrobacter rodentium
Pseudomonas aeruginosa

Rat					
Last Test Date	Results	Past 18 Months		Testing method	Testing frequency
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		E	q
08-Feb-22	0 / 8	0 / 8		E	a
08-Feb-22	0 / 8	0 / 8		E	a
08-Feb-22	0 / 8	0 / 8		E	a
02-Aug-22	0 / 10	0 / 38		E	q
05-Aug-22	0 / 52	0 / 130		EH	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 50	0 / 158		H	q
02-Aug-22	0 / 50	0 / 158		DH	q
02-Aug-22	0 / 50	0 / 158		DH	q
08-Feb-22	0 / 8	0 / 8		CH	a
08-Feb-22	0 / 8	0 / 8		DH	a
08-Feb-22	0 / 8	0 / 8		DH	a
08-Feb-22	0 / 8	0 / 8		DH	a
02-Aug-22	0 / 50	0 / 154		BH	q
02-Aug-22	0 / 50	0 / 154		FGH	q
02-Aug-22	0 / 50	0 / 154		FGH	q
02-Aug-22	0 / 50	0 / 154		FH	q
02-Aug-22	0 / 10	0 / 38		E	q
02-Aug-22	0 / 10	0 / 38		HE	q
02-Aug-22	50 / 50	108 / 158		DH	q
02-Aug-22	0 / 50	0 / 158		DH	q
04-May-22	20 / 40	20 / 48		CH	a
08-Feb-22	0 / 8	0 / 8		CH	a
08-Feb-22	0 / 8	0 / 8		CH	a
08-Feb-22	0 / 8	0 / 8		CH	a

Notes:

¹ These agents are opportunistic agents. Finding them 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

² This agent was detected in old area 4a rats in June 2022. Area 4a and 4b are completely separate SPF barrier areas where 4a received outbred rat stock from area 4b. Area 4a has been depopulated since then. Area 4b animals will undergo monthly screening for *C. piliforme* till December, in addition to routine quarterly and annual testing for other agents on the animal health monitoring report. 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. Kirsty Moynihan A/CEO

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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www.idexxbioanalytics.com

IDEXX BioAnalytics Case # 121691-2022

Received Date: 8/8/2022

Client Case # 1

Completed: 8/12/2022

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: ArcCrl:CD(SD)IGS; ArcCrl:WI;

ArcSim:LE (Long Evans

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

Swab; Opti-Spot strip(s)

Number of Specimens/Animals: 19

Area: 4b

Client ID	Room #	Species	Strain /Breed				
30-1	30	rat	F344/Arc	2/08/2022	OS	1	1
30-2	30	rat	F344/Arc	2/08/2022	OS	1	1
32-1	32	rat	CH21-3	2/08/2022	OS	1	1
32-2	32	rat	CH21-3	2/08/2022	OS	1	1
33-1	33	rat	ArcCrl:CD(SD)IG S	2/08/2022	OS	1	1
33-2	33	rat	ArcCrl:CD(SD)IG S	2/08/2022	OS	1	1
34-1	34	rat	ArcSim:LE (Long Evans)	2/08/2022	OS	1	1
34-2	34	rat	ArcSim:LE (Long Evans)	2/08/2022	OS	1	1
35-1	35	rat	ArcCrl:WI	2/08/2022	OS	1	1
35-2	35	rat	ArcCrl:WI	2/08/2022	OS	1	1
30-FP,DOS,FS	30	rat	F344/Arc	2/08/2022	FP,DOS,FS	10	3
32-FP,DOS,FS	32	rat	CH21-3	2/08/2022	FP,DOS,FS	10	3
33-FP,DOS,FS	33	rat	ArcCrl:CD(SD)IG S	2/08/2022	FP,DOS,FS	10	3
34-FP,DOS,FS	34	rat	ArcSim:LE (Long Evans)	2/08/2022	FP,DOS,FS	10	3

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

Client ID	Room #	Species	Strain /Breed				
35-FP,DOS,FS	35	rat	ArcCri:WI	2/08/2022	FP,DOS,FS	10	3
C.p-30-FP	30	rat	Various	2/08/2022	FP	10	1
C.p-33-FP	33	rat	Various	2/08/2022	FP	10	1
C.p-34-FP	34	rat	Various	2/08/2022	FP	10	1
C.p-35-FP	35	rat	Various	2/08/2022	FP	10	1

Services/Tests Performed: *Clostridium piliforme* (16-19); ARC R-Quarterly Panel (1-10); ARC Quarterly PCR Panel (11-15)

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*, *Clostridium piliforme*, *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: 777558086623

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

Please see the report for details.

SEROLOGY SUMMARY

	30-1	30-2	32-1
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

	32-2	33-1	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	N	N

	34-1	34-2	35-1
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

	35-2
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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<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>	-	-	-

feces	34-FP,DOS,FS	35-FP,DOS,FS
<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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Pasteurella pneumotropica</i> biotype Jawetz	-	-	-
<i>Pasteurella pneumotropica</i> biotype Heyl	-	-	-

oral swab	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<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	-	-	-

oral swab	34-FP,DOS,FS	35-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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Mycocoptes</i>	-	-	-
<i>Radfordia/Myobia</i>	-	-	-

pelt swab	34-FP,DOS,FS	35-FP,DOS,FS
<i>Mycocoptes</i>	-	-
<i>Radfordia/Myobia</i>	-	-

fecal pellet(s)	C.p-30-FP	C.p-33-FP	C.p-34-FP
<i>Clostridium piliforme</i>	-	-	-

fecal pellet(s)	C.p-35-FP
<i>Clostridium piliforme</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: **12-Dec-22**

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*²
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*¹
Klebsiella pneumoniae
Citrobacter rodentium
Pseudomonas aeruginosa

	Rat			Testing method	Testing frequency
	Last Test Date	Results	Past 18 Months		
Pneumonia Virus of Mice	14-Nov-22	0 / 10	0 / 44	E	q
Rat Theilovirus	14-Nov-22	0 / 10	0 / 44	E	q
Sendai Virus	14-Nov-22	0 / 10	0 / 44	E	q
Mouse Adenovirus Type 1 & 2	14-Nov-22	0 / 10	0 / 44	E	q
Sialodacryoadenitis/ Rat Corona Virus	14-Nov-22	0 / 10	0 / 44	E	q
Rat Parvoviruses (RPV, RMV, KRV, H1)**	14-Nov-22	0 / 10	0 / 44	E	q
Lymphocytic Choriomeningitis Virus	14-Nov-22	0 / 10	0 / 44	E	q
Hantaan (Korean Haemorrhagic Fever)	08-Feb-22	0 / 8	0 / 8	E	a
Reovirus -3	08-Feb-22	0 / 8	0 / 8	E	a
Rat Rotavirus	08-Feb-22	0 / 8	0 / 8	E	a
<i>CAR bacillus</i>	14-Nov-22	0 / 10	0 / 44	E	q
<i>Clostridium piliforme</i> ²	14-Nov-22	0 / 60	0 / 186	EH	q
<i>Mycoplasma pulmonis</i>	14-Nov-22	0 / 10	0 / 44	E	q
<i>Helicobacter</i> spp. *	14-Nov-22	0 / 50	0 / 188	H	q
<i>Streptococcus pneumoniae</i>	14-Nov-22	0 / 50	0 / 188	DH	q
<i>Pasteurella pneumotropica</i>	14-Nov-22	0 / 50	0 / 188	DH	q
<i>Salmonella</i> spp.	08-Feb-22	0 / 8	0 / 8	CH	a
<i>Bordetella bronchiseptica</i>	08-Feb-22	0 / 8	0 / 8	DH	a
<i>Corynebacterium kutscheri</i>	08-Feb-22	0 / 8	0 / 8	DH	a
<i>Streptobacillus moniliformis</i>	08-Feb-22	0 / 8	0 / 8	DH	a
Arthropods (Fur mites, lice, fleas)	14-Nov-22	0 / 50	0 / 184	BH	q
Nematodes (pinworms)	14-Nov-22	0 / 50	0 / 184	FGH	q
Cestodes	14-Nov-22	0 / 50	0 / 184	FGH	q
Protozoa: <i>Giardia muris</i> , <i>Spironucleus muris</i> , <i>Tritrichomonas muris</i> , <i>Entamoeba muris</i>	14-Nov-22	0 / 50	0 / 184	FH	q
<i>Encephalitozoon cuniculi</i>	14-Nov-22	0 / 10	0 / 44	E	q
<i>Pneumocystis carinii</i>	14-Nov-22	0 / 10	0 / 44	HE	q
<i>Staphylococcus aureus</i> ¹	14-Nov-22	50 / 50	158 / 188	DH	q
<i>Streptococcus</i> sp. beta hemolytic Groups A, B or C	14-Nov-22	0 / 50	0 / 188	DH	q
<i>Klebsiella oxytoca</i> ¹	04-May-22	20 / 40	20 / 48	CH	a
<i>Klebsiella pneumoniae</i>	08-Feb-22	0 / 8	0 / 8	CH	a
<i>Citrobacter rodentium</i>	08-Feb-22	0 / 8	0 / 8	CH	a
<i>Pseudomonas aeruginosa</i>	08-Feb-22	0 / 8	0 / 8	CH	a

Notes:

¹ These agents are opportunistic agents. Finding them 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

² This agent was detected in old area 4a rats in June 2022. Area 4a and 4b are completely separate SPF barrier areas where 4a received outbred rat stock from area 4b. Area 4a has been depopulated since then. Area 4b animal will undergo monthly screening for *C. piliforme* till December, in addition to routine quarterly and annual testing for other agents on the animal health monitoring report. 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. Christopher Cooper Senior Veterinary Surgeon 12/12/2022

FINAL REPORT OF LABORATORY EXAMINATION

4011 Discovery Drive, Columbia, MO 65201

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

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IDEXX BioAnalytics Case # 131935-2022

Received Date: 11/18/2022

Client Case # Case 2

Completed: 11/28/2022

Submitted By

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

Phone: 08 9332 5033
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Specimen Description

Species: rat
 Breed/Strain: ArcCrl:CD(SD)IGS; ArcCrl:WI;
 ArcSim:LE (Long Evans
 Description: Dry Oral Swab; Feces; Opti-Spot; Pelt
 Swab; Opti-Spot strip(s)
 Number of Specimens/Animals: 15
 Area: 4b

Client ID	Room #	Species	Strain /Breed				
30-1	30	rat	PVG/cArc	14/11/2022	OS	1	1
30-2	30	rat	PVG/cArc	14/11/2022	OS	1	1
32-1	32	rat	ArcSim:LE (Long Evans)	14/11/2022	OS	1	1
32-2	32	rat	ArcSim:LE (Long Evans)	14/11/2022	OS	1	1
33-1	33	rat	ArcCrl:CD(SD)IG S	14/11/2022	OS	1	1
33-2	33	rat	ArcCrl:CD(SD)IG S	14/11/2022	OS	1	1
34-1	34	rat	ArcSim:LE (Long Evans)	14/11/2022	OS	1	1
34-2	34	rat	ArcSim:LE (Long Evans)	14/11/2022	OS	1	1
35-1	35	rat	ArcCrl:WI	14/11/2022	OS	1	1
35-2	35	rat	ArcCrl:WI	14/11/2022	OS	1	1
30-FP,DOS,FS	30	rat	PVG/cArc	14/11/2022	FP,DOS,FS	10	3
32-FP,DOS,FS	32	rat	ArcSim:LE (Long Evans)	14/11/2022	FP,DOS,FS	10	3

Client ID	Room #	Species	Strain /Breed				
33-FP,DOS,FS	33	rat	ArcCrI:CD(SD)IG S	14/11/2022	FP,DOS,FS	10	3
34-FP,DOS,FS	34	rat	ArcSim:LE (Long Evans)	14/11/2022	FP,DOS,FS	10	3
35-FP,DOS,FS	35	rat	ArcCrI:WI	14/11/2022	FP,DOS,FS	10	3

Services/Tests Performed: *Clostridium piliforme* (11-15); ARC R-Quarterly Panel (1-10); ARC Quarterly PCR Panel (11-15)

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: *Aspiculuris tetraptera*, *Clostridium piliforme*, *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*, *Trichomonas muris*

General Comments: Tracking: 770440880113

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

Please see the report for details.

SEROLOGY SUMMARY

	30-1	30-2	32-1
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

	32-2	33-1	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	N	N

	34-1	34-2	35-1
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

	35-2
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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Clostridium piliforme</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>	-	-	-
<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>	-	-	-

feces	34-FP,DOS,FS	35-FP,DOS,FS
<i>Clostridium piliforme</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>	-	-
<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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Pasteurella pneumotropica</i> biotype	-	-	-

oral swab	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
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	-	-	-

oral swab	34-FP,DOS,FS	35-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	30-FP,DOS,FS	32-FP,DOS,FS	33-FP,DOS,FS
<i>Mycocptes</i>	-	-	-
<i>Radfordia/Myobia</i>	-	-	-

pelt swab	34-FP,DOS,FS	35-FP,DOS,FS
<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 sus = suspect wps = weak positive XX = Testing in progress