

Routine Animal Health Monitoring Report
(Tests performed by Charles River Laboratories, USA)

Area / Department: Conventional Experimental Holding Area – Laboratory Block, Li Ka Shing Faculty of Medicine (CA-FMB)

Samples Received Date: 14/03/2019

Report Date: 18/03/2019

Mouse Selective-Profile MFIA / IFA Test Report

CR Order No.	HKU-LAU Lab. No.	Sampling Date	Room No.	Species / Strain (Sentinel)	MFIA						
					MHV	MNV	rNS-1	MPV 1, 2 & 5	MVM	ROTA-A [EDIM]	TMEV / GDVII
2019013675	1903M201	01/03/2019	AR6	Mouse / ICR (CD-1)	-	+	-	-	-	-	-
2019013675	1903M202	01/03/2019	AR6	Mouse / ICR (CD-1)	Suspected + (unconfirmed)	+	-	-	-	-	-
2019013675	1903M203	01/03/2019	AR7	Mouse / ICR (CD-1)	+	+	-	-	-	-	-
2019013675	1903M204	01/03/2019	AR7	Mouse / ICR (CD-1)	+	+	-	-	-	-	-
2019013675	1903M205	01/03/2019	AR8	Mouse / ICR (CD-1)	+	+	-	-	-	-	-
2019013675	1903M206	01/03/2019	AR8	Mouse / ICR (CD-1)	+	+	-	-	-	-	-

Note:-

- (1). Results: - = Negative; +/- = Equivocal; + = Moderate to strong positive
- (2). These samples were tested by MFIA / IFA for antibody directed against Mouse Hepatitis Virus [MHV], Mouse Norovirus [MNV], Mouse Parvovirus rNS-1 [rNS-1], Mouse Parvovirus (Type 1, 2 & 5) [MPV 1, 2 & 5], Minute Virus of Mice [MVM], Mouse Rotavirus (ROTA-A) {Epizootic Diarrhea of Infant Mice Virus} [EDIM], Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII].

Routine Animal Health Monitoring Report
(Tests performed by Charles River Laboratories, USA)

Area / Department: Conventional Experimental Holding Area - Kadoorie Biological Sciences Building (CA-KA)

Samples Received Date: 14/03/2019

Report Date: 15/03/2019

Mouse Full-Profile MFIA / IFA Test Report

CR Order No.	HKU-LAU Lab. No.	Sampling Date	Room No.	Species / Strain (Sentinel)	MFIA																						
					CARB	ECTRO	ECUN	HANT	PHV	LDV	LCMV	MAV- 1 & 2	MCMV	MHV	MNV	rNS-1	MPV 1, 2 & 5	MVM	MTLV	MPUL	PVM	POLY	K	REO	ROTA-A [EDIM]	SEND	TMEV / GDVII
2019013676	1903M401	28/02/2019	8S20	Mouse / ICR (CD-1)	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	
2019013676	1903M402	28/02/2019	8S20	Mouse / ICR (CD-1)	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	

Note:-

(1). Results: - = Negative; +/- = Equivocal; + = Moderate to strong positive

(2). These samples were tested by MFIA / IFA for antibody directed against *Cilia Associated Respiratory bacillus* [CARB], Ectromelia Virus [ECTRO], *Encephalitozoon cuniculi* [ECUN], Hantaan Virus [HANT], Prospect Hill Virus [PHV], Lactate Dehydrogenase Elevating Virus [LDV], Lymphocytic Choriomeningitis Virus [LCMV], Mouse Adenovirus Type 1 & Type 2 [MAV-1 & 2], Mouse Cytomegalovirus [MCMV], Mouse Hepatitis Virus [MHV], Mouse Norovirus [MNV], Mouse Parvovirus rNS-1 [rNS-1], Mouse Parvovirus (Type 1, 2 & 5) [MPV 1, 2 & 5], Minute Virus of Mice [MVM], Mouse Thymic Virus [MTLV], *Mycoplasma pulmonis* [MPUL], Pneumonia Virus of Mice [PVM], Polyoma Virus [POLY], Mouse Pneumonitis Virus [K], Reovirus Type 3 [REO], Mouse Rotavirus (ROTA-A) {Epizootic Diarrhea of Infant Mice Virus} [EDIM], Sendai Virus [SEND], Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII], *Tyzzler's bacillus* (*Clostridium piliforme*) [CPIL].

Test Results

Order #: **2019015300**

The University of Hong Kong
(U Hong Kong, Lab Animal Unit RADS/GTS)
10A Sassoon Road
Pokfulam, HK 0 Hong Kong
Attn: Mr. Kwong Ming Lam

Charles River Research Animal Diagnostic Services
(CR RADS)
261 Ballardvale Street
Receiving Dock, Bldg 22
Wilmington MA 01887 USA

Billing Information

Payment Method

Purchase Order PO#: Covering Invoice for
#2019015300

University of Hong Kong
Li Ka Shing Faculty
10A Sassoon Road
Pokfulam, HK 0 Hong Kong

Details

Sample(s) from: NULL

Collection Date
11-Mar-2019

Arrival Date
14-Mar-2019

Approval Date
20-Mar-2019

Notes

Lab.No. 1903T1-1903T3, Location: CA-FMB, Sample Types: Body / Fur Swab, Fecal Pellet, Oral Swab

Diagnostic Summary

Test	Colony	Tested	+	+/-	?	PDG
Aspiculuris tetraptera Pinworm Speciation PCR	n/d	2	1	0	0	0
MHV PCR Mouse Surveillance Plus PRIA	n/d	3	3	0	0	0
MNV PCR Mouse Surveillance Plus PRIA	n/d	3	3	0	0	0
P. pneumotropica-Jawetz PCR Mouse Surveillance Plus PRIA	n/d	3	2	0	0	0
Pinworm PCR Mouse Surveillance Plus PRIA	n/d	3	2	0	0	0
Syphacia obvelata Pinworm Speciation PCR	n/d	2	1	0	0	0

+ = Positive, +/- = Equivocal, ? = Indeterminate, PDG = Pending

To assure the SPF status of your research animal colonies, it is essential that you understand the sources, pathobiology, diagnosis and control of pathogens and other adventitious infectious agents that may cause research interference. We have summarized this important information in infectious agent **Technical Sheets**, which you can view by visiting http://www.criver.com/info/disease_sheets.

Test Results

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Notes

Lab.No. 1903T1-1903T3, Location: CA-FMB, Sample Types: Body / Fur Swab, Fecal Pellet, Oral Swab

Molecular Diagnostics: Infectious Disease PCR

Results approved by Peck, DiAnne on 20 Mar 2019

Mouse Surveillance Plus PRIA

	1 1903T1, RmAR6	2 1903T2, RmAR7	3 1903T3, RmAR8
LCMV PCR	-	-	-
MAV 1 & 2 PCR	-	-	-
MHV PCR	+	+	+
MNV PCR	+	+	+
Mousepox (Ectromelia) PCR	-	-	-
Mouse Parvovirus (MPV/MVM) P	-	-	-
MRV (EDIM) PCR	-	-	-
PVM PCR	-	-	-
REO PCR	-	-	-
SEND PCR	-	-	-
TMEV/GDVII PCR	-	-	-
Beta Strep Grp A PCR	-	-	-
Beta Strep Grp B PCR	-	-	-
Beta Strep Grp C PCR	-	-	-
Beta Strep Grp G PCR	-	-	-
B. bronchiseptica PCR	-	-	-
B. hinzii PCR	-	-	-
Campylobacter Genus PCR	-	-	-
C. bovis PCR	-	-	-
CAR Bacillus PCR	-	-	-
C. kutscheri PCR	-	-	-
C. rodentium PCR	-	-	-
C. piliforme PCR	-	-	-
K. oxytoca PCR	-	-	-
K. pneumoniae PCR	-	-	-
Helicobacter genus	-	-	-
M. pulmonis PCR	-	-	-
P. pneumotropica-Heyl PCR	-	-	-
P. pneumotropica-Jawetz PCR	+	+	-
Ps. aeruginosa PCR	-	-	-
Salmonella Genus PCR	-	-	-
S. aureus PCR	-	-	-
S. moniliformis PCR	-	-	-
S. pneumoniae PCR	-	-	-
Cryptosporidium PCR	-	-	-
Demodex PCR	-	-	-
Entamoeba PCR	-	-	-
Giardia PCR	-	-	-

Test Results

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Notes

Lab.No. 1903T1-1903T3, Location: CA-FMB, Sample Types: Body / Fur Swab, Fecal Pellet, Oral Swab

Molecular Diagnostics: Infectious Disease PCR

Results approved by Peck, DiAnne on 20 Mar 2019

	<u>1</u> 1903T1, RmAR6	<u>2</u> 1903T2, RmAR7	<u>3</u> 1903T3, RmAR8
Mite PCR	-	-	-
Pinworm PCR	+	+	-
Pneumocystis PCR	-	-	-
P. mirabilis	-	-	-
Spironucleus muris PCR	-	-	-
Tritrichomonas genus PCR	-	-	-

Pinworm Speciation PCR

	<u>1</u> 1903T1, RmAR6	<u>2</u> 1903T2, RmAR7
Aspiculuris tetraptera	+	-
Syphacia muris	-	-
Syphacia obvelata	-	+

Remarks

- = Negative, +/- = Equivocal; + = Positive; I = Inconclusive.

An equivocal result indicates inconsistent amplification detected by real-time PCR.

Inconclusive indicates failure of control result.

Nucleic Acid Recovery Control (NRC)/Inhibition Control: A low copy exogenous nucleic acid was added to sample lysis prior to nucleic acid isolation to serve as both a control to monitor for nucleic acid recovery and PCR inhibition. An RNA NRC also monitors reverse transcription for RNA virus assays. Nucleic acid recovery and PCR inhibition is monitored by a PCR assay specific for the NRC template. Unless otherwise stated, the control results passed for this order.

Any samples reported as equivocal or positive result in this report has been confirmed by re-extracting nucleic acid and repeating real-time PCR amplification to confirm the initial testing result.

Recommended sample types are essential to accurate results. Missing or inappropriate sample types can effect detection. If this report contains an unexpected result or are unsure of recommended sample types, please contact Lab Services@crl.com before taking any action. Additional or alternative testing may be essential to reaching an accurate diagnosis. We will be glad to test newly submitted samples for the positive agents up to the number of unexpected results in this order.

Test Results

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Notes

Lab.No. 1903T1-1903T3, Location: CA-FMB, Sample Types: Body / Fur Swab, Fecal Pellet, Oral Swab

Sample Information

Number	Code	Species	Colony	Strain	Age	Sex
1	1903T1, RmAR6	Mouse	n/d	Sentinel/ BALB/cAnN -nu (Nude/+)	8-10 weeks	Female
2	1903T2, RmAR7	Mouse	n/d	Sentinel/ BALB/cAnN -nu (Nude/+)	8-10 weeks	Female
3	1903T3, RmAR8	Mouse	n/d	Sentinel/ BALB/cAnN -nu (Nude/+)	8-10 weeks	Female

RESOURCES

GLOSSARY OF TERMS

Agent	Abbreviation	Family/Order	Subfam/Genus	Host Species*
Adenovirus	MAV, RAD	Adenoviridae	Mastadenovirus	M, R
Aleutian disease virus	ADV	Parvoviridae	Amdovirus	F
Cilia-associated respiratory bacillus	CARB	Unclassified	Unclassified	M, R, Rb
Clostridium piliforme	CPIL	Clostridiaceae	Clostridium	M, R, Rb, F
Distemper virus	CDV	Paramyxoviridae	Morbillivirus	F
Ectromelia virus (Mousepox)	ECTRO	Poxviridae	Orthopoxvirus	M
Eimeria	EIM	Eimeriidae	Eimeria	Rb
Encephalitozoon cuniculi	ECUN	Pleistophoridae	Encephalitozoon	M, R, GP, H, Rb
Encephalomyocarditis virus	EMCV	Picornaviridae	Cardiovirus	M, R
Guinea pig adenovirus	GAV	Adenoviridae	Mastadenovirus	GP
Guinea pig cytomegalovirus	GpCMV	Herpesviridae	Betaherpesvirus	GP
Hantaan	HTNV (HANT)	Bunyaviridae	Hantavirus	M, R
Infectious pancreatic necrosis virus	IPNV	Birnaviridae	Aquabirnavirus	Z
Infectious spleen and kidney necrosis virus	ISKNV	Iridoviridae	Megalocytivirus	Z
Influenza A virus	INFA	Orthomyxoviridae	Influenzavirus A	F
Kilham rat virus	KRV	Parvoviridae	Parvovirus	R
Lactate dehydrogenase-elevating virus	LDV/LDH	Arteriviridae	Arterivirus	M
Ljungan virus	LV	Picornaviridae	Parechovirus	R
Lymphocytic choriomeningitis virus	LCMV	Arenaviridae	Arenavirus	M, R, GP, H
Minute virus of mice	MVM	Parvoviridae	Parvovirus	M
Mouse cytomegalovirus	MCMV	Herpesviridae	Betaherpesvirus	M
Mouse hepatitis virus	MHV	Coronaviridae	Coronavirus	M
Mouse parvovirus	MPV-1/-2/-5	Parvoviridae	Parvovirus	M
Mouse pneumonitis virus	K	Polyomaviridae	Polyomavirus	M
Mouse thymic virus	MTLV	Herpesviridae	Unclassified	M
Murine norovirus	MNV	Caliciviridae	Norovirus	M
Murine rotavirus	EDIM/ROTA-A	Reoviridae	Rotavirus	M
Mycoplasma arthritis	MARTH	Mycoplasmataceae	Mycoplasma	M, R
Mycoplasma pulmonis	MPUL	Mycoplasmataceae	Mycoplasma	M, R
Myxomatosis virus	MYXO	Poxviridae	Leporipoxvirus	Rb
Parainfluenza virus (type 1)	PIV-1	Paramyxoviridae	Respirovirus	Rb
Parainfluenza virus (type 2)	PIV-2	Paramyxoviridae	Rubulavirus	Rb
Parainfluenza virus (type 3)	PIV-3	Paramyxoviridae	Respirovirus	GP
Parainfluenza virus (type 5)	PIV-5	Paramyxoviridae	Rubulavirus	GP, H
Parvovirus NS-1	NS-1	Parvoviridae	Parvovirus	M, R
Pneumocystis carinii	PCAR	Pneumocystidaceae	Pneumocystis	R
Pneumonia virus of mice	PVM	Paramyxoviridae	Pneumovirus	M, R, GP, H
Polyoma virus	POLY	Polyomaviridae	Polyomavirus	M
Prospect Hill virus	PHV	Bunyaviridae	Hantavirus	M
Rabbit adenovirus	RbAV	Adenoviridae	Mastadenovirus	Rb
Rabbit hemorrhagic disease virus	RHDV	Caliciviridae	Lagovirus	Rb
Rabbit rotavirus	ROTA	Reoviridae	Rotavirus	Rb
Rat coronavirus/sialodacryoadentitis virus	RCV, SDAV	Coronaviridae	Coronavirus	R
Rat cytomegalovirus	RCMV	Herpesviridae	Betaherpesvirus	R
Rat minute virus	RMV	Parvoviridae	Parvovirus	R
Rat parvovirus	RPV	Parvoviridae	Parvovirus	R
Rat polyomavirus	RatPyV2/RPyV2	Polyomaviridae	Unclassified	R
Rat rotavirus (infectious diarrhea of infant rats)	IDIR/ROTA-B	Reoviridae	Rotavirus	R
Rat theilovirus (Theiler's-like virus of rats)	RTV	Picornaviridae	Theilovirus	R
Reovirus	REO	Reoviridae	Orthoreovirus	M, R, GP, H
Rabbit picobirnavirus	RPBV	Picobirnaviridae	Picobirnavirus	Rb
Sendai virus	SEND	Paramyxoviridae	Respirovirus	M, R, GP, H
Seoul virus	SEO	Bunyaviridae	Hantavirus	M, R
Theiler's murine encephalomyelitis virus	TMEV (GDVII)	Picornaviridae	Cardiovirus	M, R
Toolan's H-1 virus	H-1	Parvoviridae	Parvovirus	R
Toxoplasma gondii	TOXO	Sarcocystidae	Toxoplasma	Rb
Treponema paraluis-cuniculi	TREP	Spirochaetales	Treponema	Rb

* Species: M = mouse, R = rat, GP = guinea pig, H = hamster, Rb = rabbit, F = ferret, Z = zebrafish

Agent	Abbreviation	Family/Order	Subfam/Genus	Host Species
Epstein-Barr virus	EBV	Herpesviridae	Lymphocryptovirus	Simian
Hepatitis A	HEP-A	Picornaviridae	Hepatovirus	Simian
Herpes B virus	HBV	Herpesviridae	Alphaherpesvirus	Simian
Herpes virus papio-2	HVP-2	Herpesviridae	Alphaherpesvirus	Simian
Lymphocryptovirus	LCV	Herpesviridae	Lymphocryptovirus	Simian
Macaque (Rhesus) rhadinovirus	MRV	Herpesviridae	Rhadinovirus	Simian
Malaria (Plasmodium)	MAL	Plasmodiidae	Plasmodium	Simian
Measles virus	MV	Paramyxoviridae	Morbillivirus	Simian
Parainfluenza virus (type 5)	PIV-5 (SV-5)	Paramyxoviridae	Rubulavirus	Simian
Simian agent 8	SA-8	Herpesviridae	Simplexvirus	Simian
Simian cytomegalovirus	SCMV/CMV	Herpesviridae	Cytomegalovirus	Simian
Simian foamy virus	SFV	Retroviridae	Spumavirus	Simian
Simian immunodeficiency virus	SIV	Retroviridae	Lentivirus	Simian
Simian rotavirus	SA-11	Reoviridae	Rotavirus	Simian
Simian T-lymphotropic virus	STLV	Retroviridae	Deltaretrovirus	Simian
Simian type D retrovirus	SRV	Retroviridae	Betaretrovirus	Simian
Simian varicella virus	SVV	Herpesviridae	Varicellovirus	Simian
Simian virus 40	SV-40	Polyomaviridae	Polyomavirus	Simian
Trypanosoma cruzi (Chagas Disease)	T. cruzi/CHA	Trypanosomatidae	Trypanosoma	Simian

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