

THE UNIVERSITY OF HONG KONG - LABORATORY ANIMAL UNIT - UNIT LABORATORY
Minimal Diseases Experimental Holding Area - LAU Building (MDA) : Mouse Health Surveillance Data Year 2018

Room			Rm 102	Rm 103	Rm 104	Rm 105	Rm 106	Rm 107	Rm 108	Rm 109	Rm 110	Rm 111	
Species / Strain			Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	
1) Virology Screening (Note 1)	Testing Lab (Note 2)	Test Method (Note 2)	Result (Note 3)										
Ectromelia Virus [ECTRO]	CRL	MFIA	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Hantaan Virus [HANT]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Lactate Dehydrogenase Elevating Virus [LDV]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Lymphocytic Choriomeningitis Virus [LCMV]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Mouse Adenovirus (includes MA4 1 & 2) [MAV]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Mouse Cytomegalovirus [MCMV]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Mouse Hepatitis Virus [MHV]			0 / 32	0 / 19	0 / 30	0 / 50	0 / 30	0 / 30	0 / 30	0 / 30	0 / 18	0 / 30	0 / 44
Mouse Norovirus [MNV]			12 / 12	9 / 9	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	6 / 6	12 / 12	12 / 12
Mouse Parvovirus rNS-1 [rNS-1]			0 / 12	0 / 9	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 6	0 / 12	0 / 12
Mouse Parvovirus (Type 1, 2, 5) [MPV 1, 2, 5]			0 / 12	0 / 9	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 6	0 / 12	0 / 12
Minute Virus of Mice [MVM]			0 / 12	0 / 9	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 6	0 / 12	0 / 12
Mouse Thymic Virus [MTLV]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Pneumonia Virus of Mice [PVM]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Polyoma Virus [POLY]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Mouse Pneumonitis Virus [K]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Reovirus Type 3 [REO]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Mouse Rotavirus A (Epizootic Diarrhea of Infant Mice Virus)			0 / 12	0 / 9	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 6	0 / 12	0 / 12
Sendai Virus [SEND]			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII]			0 / 12	0 / 9	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12	0 / 6	0 / 12	0 / 12
2 Bacteriological Screening													
<i>Bordetella bronchiseptica</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7	
<i>Bordetella hinzii</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Burkholderia cepacia</i>	CRL	PCR	/	/	/	/	/	/	/	/	/	/	
<i>Cilia Associated Respiratory bacillus [CARB]</i>			0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3
<i>Citrobacter rodentium</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7	
<i>Clostridium piliforme (Tyzzer's bacillus)</i>	CRL	MFIA	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	
<i>Corynebacterium bovis</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7	
<i>Corynebacterium kutscheri</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Escherichia coli, β-haemolytic</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Haemophilus spp.</i>			0 / 8	0 / 8	2 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	1 / 7	2 / 8	0 / 7
<i>Haemophilus parainfluenzae</i>	CRL	PCR	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Helicobacter Bilis [HBB]</i>			0 / 1	0 / 1	/	/	/	/	/	/	/	/	/
<i>Helicobacter Ganmani [HBG]</i>			1 / 1	1 / 1	/	/	/	/	/	/	/	/	/
<i>Helicobacter Hepaticus [HHB]</i>			1 / 1	1 / 1	/	/	/	/	/	/	/	/	/
<i>Helicobacter Mastomyrinus [HBM]</i>			1 / 1	1 / 1	/	/	/	/	/	/	/	/	/
<i>Helicobacter Rodentium [HBR]</i>			0 / 1	0 / 1	/	/	/	/	/	/	/	/	/
<i>Helicobacter Typhlonius [HBT]</i>			1 / 1	1 / 1	/	/	/	/	/	/	/	/	/
<i>Klebsiella oxytoca</i>			Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8
<i>Klebsiella pneumoniae</i>	0 / 8	0 / 8			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Mycoplasma pulmonis [MPUL]</i>	0 / 3	0 / 3		0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	
<i>Pasteurella spp.</i>	0 / 8	0 / 8		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7	
<i>Pasteurella haemolytica</i>	CRL	PCR	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Pasteurella multocida</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Pasteurella pneumotropica</i>			4 / 8	0 / 8	1 / 8	4 / 8	5 / 8	0 / 8	4 / 8	1 / 7	2 / 8	0 / 7	
<i>Pasteurella pneumotropica-Heyl</i>			/	/	/	/	/	/	/	/	/	/	/
<i>Pasteurella pneumotropica-Jawetz</i>			/	/	/	/	/	/	/	/	/		
<i>Proteus spp.</i>	Unit Lab / CRL	Culture	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Proteus mirabilis</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Pseudomonas spp.</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Pseudomonas aeruginosa</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Pseudomonas putida</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Salmonella spp.</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Staphylococcus aureus</i>			3 / 8	3 / 8	4 / 8	1 / 8	0 / 8	1 / 8	1 / 8	1 / 7	1 / 8	1 / 7	1 / 8
<i>Stenotrophomonas maltophilia</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Streptobacillus moniliformis</i>			0 / 9 [*]	0 / 9 [*]	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Streptococcus pneumoniae</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Streptococcus spp. β-haemolytic Lancefield group A</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
<i>Streptococcus spp. β-haemolytic Lancefield group B</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
<i>Streptococcus spp. β-haemolytic Lancefield group C</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
<i>Streptococcus spp. β-haemolytic Lancefield group D</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
<i>Streptococcus spp. β-haemolytic Lancefield group E</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
<i>Streptococcus spp. β-haemolytic Lancefield group F</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
<i>Streptococcus spp. β-haemolytic Lancefield group G</i>	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7		
3 Mycological Screening													
Dermatophytes	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7	
<i>Pneumocystis spp.</i>	CRL	PCR	/	/	/	/	/	/	/	/	/	/	
4 Parasitological Screening													
Ecto-parasites													
Fleas, Mites and Lice	Unit Lab	Microscopic	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7	
<i>Demodex</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Fur mites (Myobia, Myocoptes, Radfordia)</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
Endo-parasites													
Helminths	Unit Lab	Microscopic	0 / 20	0 / 16	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 14	0 / 20	0 / 19	
<i>Pinworm</i>			0 / 20	0 / 16	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 14	0 / 20	0 / 19
<i>Aspicularis tetraaptera</i>			0 / 20	0 / 16	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 14	0 / 20	0 / 19
<i>Syphacia spp.</i>			0 / 20	0 / 16	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 14	0 / 20	0 / 19
<i>Cryptosporidium</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Entamoeba spp.</i>			5 / 8	4 / 8	7 / 8	7 / 8	3 / 8	2 / 8	5 / 8	4 / 7	4 / 8	7 / 7	
<i>Eimeria spp.</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Giardia spp.</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Spiroplasma spp.</i>			0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 7	0 / 8	0 / 7
<i>Trichomonads</i>			2 / 8	7 / 8	6 / 8	5 / 8	6 / 8	2 / 8	1 / 8	6 / 7	5 / 8	4 / 7	
<i>Trichomonas spp.</i>	CRL	PCR	/	/	/	/	/	/	/	/	/		

Note :-

- Microbes were screened from clinically healthy sentinel (using soiled bedding exposure method) or resident animals for health monitoring from each breeding room or experimental holding room.
 - 3 sentinel animals for Serology screening [antibody testing] quarterly and PCR test on *Streptobacillus moniliformis* for each animal room biennial.
 - 4 sentinel animals for Bacteriology, Mycology & Parasitology screening 6-monthly
 - 2 resident animals for PCR test on *Pneumocystis spp.* were screened for NOD SCID & NSG colonies quarterly. And fecal pellets of resident animals for PCR test on *Helicobacter spp.* were screened for each animal room biennial
- Abbreviations : CRL = Charle River Laboratories, USA. MFIA = Multiplexed Fluorometric ImmunoAssay (antibody testing) PCR = Polymerase Chain Reaction.
- Result = Total no. of positive / Total no. of samples collected, "/" = Tested not done, Additional test methods are marked with *, ^, # & \$

THE UNIVERSITY OF HONG KONG - LABORATORY ANIMAL UNIT - UNIT LABORATORY

Minimal Diseases Experimental Holding Area - LAU Building (MDA) : Mouse Health Surveillance Data (Calendar Year 2018)

Room			Rm 112	Rm128	Rm128	Rm118	Rm 118	Rm 124	Rm 125	Rm 127	Rm128	Rm118
Species / Strain			Mouse / Multi-strain	Mouse / NOD SCID (IVC, Old colony)	Mouse / Multi-strain (IVC)	Mouse / NSG (IVC)	Mouse NOD / SCID (IVC, New colony)	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / Multi-strain	Mouse / NOD + (IVC, MDA Sentinel animals)
I) Virology Screening (Note 1)	Testing Lab (Note 2)	Test Method (Note 2)	Result (Note 3)									
Ectromelia Virus [ECTRO]	CRL	MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9 ^a
Hantaan Virus [HANT]		MFIA	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	0 / 3	/	0 / 7
Lactate Dehydrogenase Elevating Virus [LDV]		MFIA	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	0 / 3	/	0 / 7
Lymphocytic Choriomeningitis Virus [LCMV]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9 ^a
Mouse Adenovirus (includes MA1 & 2) [MAV]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9 ^a
Mouse Cytomegalovirus [MCMV]		MFIA	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	0 / 3	/	0 / 7
Mouse Hepatitis Virus [MHV]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 30	0 / 32 ^a	0 / 46 ^a	0 / 25 ^a	0 / 2 ^a	0 / 30	0 / 30	0 / 30	0 / 18	0 / 9 ^a
Mouse Norovirus [MNV]		MFIA, PCR ^a , MFIA+PCR ^a	12 / 12	0 / 14 ^a	0 / 28 ^a	0 / 13 ^a	0 / 2 ^a	12 / 12	12 / 12	12 / 12	6 / 6	0 / 9 ^a
Mouse Parvovirus rNS-1 [rNS-1]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 12	0 / 14 ^a	0 / 28 ^a	0 / 13 ^a	0 / 2 ^a	0 / 12	0 / 12	0 / 12	0 / 6	0 / 9 ^a
Mouse Parvovirus (Type 1, 2, 5) [MPV 1, 2, 5]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 12	0 / 14 ^a	0 / 28 ^a	0 / 13 ^a	0 / 2 ^a	0 / 12	0 / 12	0 / 12	0 / 6	0 / 9 ^a
Minute Virus of Mice [MVM]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 12	0 / 14 ^a	0 / 28 ^a	0 / 13 ^a	0 / 2 ^a	0 / 12	0 / 12	0 / 12	0 / 6	0 / 9 ^a
Mouse Thymic Virus [MTLV]		MFIA	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	0 / 3	/	0 / 7
Pneumonia Virus of Mice [PVM]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9 ^a
Polyoma Virus [POLY]		MFIA	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	0 / 3	/	0 / 7
Mouse Pneumonitis Virus [K]		MFIA	0 / 3	0 / 3	0 / 3	0 / 3	/	0 / 3	0 / 3	0 / 3	/	0 / 7
Reovirus Type 3 [REO]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9 ^a
Mouse Rotavirus (ROTA-A) [Epizootic Diarrhea of Infant]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 12	0 / 14 ^a	0 / 28 ^a	0 / 13 ^a	0 / 2 ^a	0 / 12	0 / 12	0 / 12	0 / 6	0 / 9 ^a
Sendai Virus [SEND]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9 ^a
Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII]		MFIA, PCR ^a , MFIA+PCR ^a	0 / 12	0 / 14 ^a	0 / 19 ^a	0 / 13 ^a	0 / 2 ^a	0 / 12	0 / 12	0 / 12	0 / 6	0 / 9 ^a
I Bacteriological Screening (Note 1)												
<i>Bordetella bronchiseptica</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Bordetella hinzii</i>	Unit Lab	Culture	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Burkholderia cepacia</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Campylobacter</i>	CRL	PCR	/	0 / 2	0 / 16	0 / 4	0 / 2	/	/	/	/	0 / 2
<i>Cilia Associated Respiratory bacillus [CARB]</i>	CRL	MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9
<i>Citrobacter rodentium</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Clostridium piliforme (Tyzzer's bacillus)</i>	CRL	MFIA, PCR ^a , MFIA+PCR ^a	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9
<i>Corynebacterium bovis</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Corynebacterium kutscheri</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Escherichia coli, β-haemolytic</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Haemophilus spp.</i>	Unit Lab	Culture	0 / 8	2 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Haemophilus parainfluenzae</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	2 / 8	0 / 4	/
<i>Helicobacter Bilis [HBB]</i>	Unit Lab	Culture	0 / 1	0 / 3	0 / 8	0 / 4	0 / 2	1 / 1	0 / 1	0 / 1	/	0 / 2 ^a
<i>Helicobacter Ganmani [HBG]</i>	Unit Lab	Culture	1 / 1	0 / 3	0 / 17	0 / 4	0 / 2	1 / 1	1 / 1	0 / 1	/	0 / 2 ^a
<i>Helicobacter Hepaticus [HBH]</i>	Unit Lab	Culture	1 / 1	3 / 3	16 / 17	0 / 4	0 / 2	1 / 1	1 / 1	1 / 1	/	0 / 2 ^a
<i>Helicobacter Mastomyris [HBM]</i>	Unit Lab	Culture	1 / 1	0 / 3	0 / 17	0 / 4	0 / 2	1 / 1	0 / 1	1 / 1	/	0 / 2 ^a
<i>Helicobacter Rodentium [HBR]</i>	Unit Lab	Culture	0 / 1	0 / 3	0 / 17	0 / 4	0 / 2	0 / 1	0 / 1	0 / 1	/	0 / 2 ^a
<i>Helicobacter Typhlonius [HBT]</i>	Unit Lab	Culture	1 / 1	0 / 3	0 / 17	0 / 4	0 / 2	1 / 1	1 / 1	1 / 1	/	0 / 2 ^a
<i>Klebsiella oxytoca</i>	Unit Lab/CRL	Culture	0 / 8	0 / 10 ^a	4 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Klebsiella pneumoniae</i>	Unit Lab/CRL	Culture	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Mycoplasma pulmonis [MPUL]</i>	CRL	MFIA	0 / 3	0 / 5 ^a	0 / 19 ^a	0 / 7 ^a	0 / 2 ^a	0 / 3	0 / 3	0 / 3	/	0 / 9
<i>Pasteurella spp.</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Pasteurella haemolytica</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Pasteurella multocida</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Pasteurella pneumotropica</i>	Unit Lab	Culture	1 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Pasteurella pneumotropica-Heyl</i>	Unit Lab	Culture	/	0 / 2	0 / 16	0 / 4	0 / 2	/	/	/	/	0 / 2
<i>Pasteurella pneumotropica-Jawetz</i>	Unit Lab	Culture	/	0 / 2	0 / 16	0 / 4	0 / 2	/	/	/	/	0 / 2
<i>Proteus spp.</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	4 / 8	0 / 8	0 / 8	0 / 4	/
<i>Proteus mirabilis</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Pseudomonas spp.</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Pseudomonas aeruginosa</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	1 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Pseudomonas putida</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Salmonella spp.</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Staphylococcus aureus</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	5 / 10 ^a	7 / 24 ^a	4 / 8 ^a	0 / 2 ^a	2 / 8	3 / 8	3 / 8	2 / 4	0 / 2 ^a
<i>Stenotrophomonas maltophilia</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Streptobacillus moniliformis</i>	Unit Lab	Culture	0 / 9	0 / 11 ^a	0 / 25	0 / 8 ^a	0 / 2 ^a	0 / 9	0 / 9	0 / 9	0 / 4	0 / 2 ^a
<i>Streptococcus pneumoniae</i>	Unit Lab	Culture	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Streptococcus spp. β - haemolytic Lancefield group A</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Streptococcus spp. β - haemolytic Lancefield group B</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Streptococcus spp. β - haemolytic Lancefield group C</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Streptococcus spp. β - haemolytic Lancefield group D</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Streptococcus spp. β - haemolytic Lancefield group F</i>	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Streptococcus spp. β - haemolytic Lancefield group G</i>	Unit Lab/CRL	Culture, PCR ^a , Culture+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
I Mycological Screening (Note 1)												
Dermatophytes	Unit Lab	Culture	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Pneumocystis spp.</i>	CRL	PCR	/	0 / 10	0 / 16	0 / 8	0 / 2	/	/	/	/	0 / 2 ^a
I Parasitological Screening (Note 1)												
Ecto-parasites												
Fleas, Mites and Lice	Unit Lab	Microscopic	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
Demodex	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Fur mites (Myobia, Myocoptes, Radfordia)</i>	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	0 / 8	0 / 10 ^a	0 / 16	0 / 4	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
Endo-parasites												
Helminths	Unit Lab	Microscopic	0 / 20	0 / 20	0 / 20	0 / 12	/	0 / 20	0 / 20	0 / 20	0 / 11	/
Pinworm	Unit Lab	Microscopic	0 / 20	0 / 20	0 / 36	0 / 16	/	0 / 20	0 / 20	0 / 20	0 / 11	/
<i>Aspicularis tetraoptera</i>	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	0 / 20	0 / 22 ^a	0 / 36	0 / 16 ^a	0 / 2 ^a	0 / 20	0 / 20	0 / 20	0 / 11	0 / 2 ^a
<i>Syphacia spp.</i>	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	0 / 20	0 / 22 ^a	0 / 36	0 / 16 ^a	0 / 2 ^a	0 / 20	0 / 20	0 / 20	0 / 11	0 / 2 ^a
<i>Cryptosporidium spp.</i>	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a
<i>Entamoeba spp.</i>	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	8 / 8	3 / 10 ^a	17 / 24 ^a	0 / 8 ^a	0 / 2 ^a	8 / 8	6 / 8	4 / 8	4 / 4	0 / 2 ^a
<i>Eimeria spp.</i>	Unit Lab	Microscopic	0 / 8	0 / 8	0 / 8	0 / 4	/	0 / 8	0 / 8	0 / 8	0 / 4	/
<i>Giardia spp.</i>	Unit Lab/CRL	Microscopic, PCR ^a , Microscopic+PCR ^a	0 / 8	0 / 10 ^a	0 / 24 ^a	0 / 8 ^a	0 / 2 ^a	0 / 8	0 / 8	0 / 8	0 / 4	0 / 2 ^a

THE UNIVERSITY OF HONG KONG - LABORATORY ANIMAL UNIT - UNIT LABORATORY
Minimal Diseases Experimental Holding Area - LAU Building (MDA) : Rat Health Surveillance Data Year 2018)

Room	Species / Strain	Testing Lab (Note 2)	Test Method (Note 2)	Rm 101 Rat / Multi-strain Result (Note 3)		
I) Virology Screening (Note 1)						
	Hantaan Virus [HANT]	CRL	MFIA	0 / 3		
	Mouse Adenovirus (includes MAd 1 & 2) [MAV]			0 / 3		
	Pneumonia Virus of Mice [PVM]			0 / 12		
	Parvovirus [NS-1]			0 / 12		
	Rat Parvovirus [RPV]			0 / 12		
	Kilham Rat Virus [KRV]			0 / 12		
	Toolan's H-1 Virus [H-1]			0 / 12		
	Rat Minute Virus [RMV]			0 / 12		
	Rat Coronavirus/Sialodacryoadenitis Virus [RCV / SDAV]			0 / 12		
	Rat Theilovirus [RTV]			0 / 12		
	Reovirus Type 3 [REO]			0 / 3		
	Sendai Virus [SEND]			0 / 3		
II) Bacteriological Screening (Note 1)						
	<i>Bordetella bronchiseptica</i>	Unit Lab	Culture	0 / 8		
	<i>Bordetella hinzii</i>			0 / 8		
	<i>Burkholderia cepacia</i>	CRL	MFIA	0 / 8		
	<i>Cilia Associated Respiratory bacillus [CARB]</i>			0 / 3		
	<i>Citrobacter rodentium</i>	Unit Lab	Culture	0 / 8		
	<i>Clostridium piliforme</i> (Tyzzer's bacillus)	CRL	MFIA	0 / 12		
	<i>Corynebacterium bovis</i>	Unit Lab	Culture	0 / 8		
	<i>Corynebacterium kutscheri</i>			0 / 8		
	<i>Escherichia coli, β-haemolytic</i>			0 / 8		
	<i>Haemophilus spp.</i>			0 / 8		
	<i>Haemophilus parainfluenzae</i>			0 / 8		
	<i>Helicobacter Bilis [HBB]</i>			CRL	PCR	/
	<i>Helicobacter Ganmani [HBG]</i>					/
	<i>Helicobacter Hepaticus [HBH]</i>					/
	<i>Helicobacter Mastomyrinus [HBM]</i>	/				
	<i>Helicobacter Rodentium [HBR]</i>	/				
	<i>Helicobacter Typhlonius [HBT]</i>	/				
	<i>Klebsiella oxytoca</i>	Unit Lab	Culture	0 / 8		
	<i>Klebsiella pneumoniae</i>	CRL	MFIA	0 / 8		
	<i>Mycoplasma pulmonis [MPUL]</i>			0 / 12		
	<i>Pasteurella spp.</i>	Unit Lab	Culture	0 / 8		
	<i>Pasteurella haemolytica</i>			0 / 8		
	<i>Pasteurella multocida</i>			0 / 8		
	<i>Pasteurella pneumotropica</i>			5 / 8		
	<i>Proteus spp.</i>			4 / 8		
	<i>Proteus mirabilis</i>			4 / 8		
	<i>Pseudomonas spp.</i>			0 / 8		
	<i>Pseudomonas aeruginosa</i>			0 / 8		
	<i>Pseudomonas putida</i>			0 / 8		
	<i>Salmonella spp.</i>			0 / 8		
	<i>Staphylococcus aureus</i>			0 / 8		
	<i>Stenotrophomonas maltophilia</i>			0 / 8		
	<i>Streptobacillus moniliformis</i>			0 / 8		
	<i>Streptococcus pneumoniae</i>	0 / 8				
	<i>Streptococcus spp. β-haemolytic Lancefield group A</i>	0 / 8				
	<i>Streptococcus spp. β-haemolytic Lancefield group B</i>	0 / 8				
	<i>Streptococcus spp. β-haemolytic Lancefield group C</i>	0 / 8				
	<i>Streptococcus spp. β-haemolytic Lancefield group D</i>	0 / 8				
	<i>Streptococcus spp. β-haemolytic Lancefield group F</i>	0 / 8				
	<i>Streptococcus spp. β-haemolytic Lancefield group G</i>	0 / 8				
III) Mycological Screening (Note 1)						
	Dermatophytes	Unit Lab	Culture	0 / 8		
	<i>Encephalitozoon cuniculi</i>	CRL	MFIA	0 / 3		
	<i>Pneumocystis carinii</i>			3 / 3		
IV) Parasitological Screening (Note 1)						
Ecto-parasites						
	Fleas, Mites and Lice	Unit Lab	Microscopic	0 / 8		
Endo-parasites						
	Helminths	Unit Lab	Microscopic	0 / 20		
	Pinworm			0 / 20		
	<i>Cryptosporidium spp.</i>			0 / 8		
	<i>Entamoeba spp.</i>			8 / 8		
	<i>Eimeria spp.</i>			0 / 8		
	<i>Giardia spp.</i>			0 / 8		
	<i>Spiroplasma spp.</i>			0 / 8		
	<i>Trichomonads</i>			0 / 8		

Note :-

- Microbes were screened from clinically healthy sentinel (using soiled bedding exposure method) or resident animals for routine health monitoring from each breeding room or experimental holding room.
 - 3 sentinel animals for Serology screening [antibody testing] quarterly and PCR test on *Streptobacillus moniliformis* for each animal room biennial
 - 4 sentinel animals for Bacteriology, Mycology & Parasitology screening 6-monthly
 - Fecal pellets of resident animals for PCR test on *Helicobacter spp.* were screened for each animal room biennial
- Abbreviations: CRL = Charles River Laboratories, USA; MFIA = Multiplexed Fluorometric ImmunoAssay (antibody testing) PCR = Polymerase Chain Reaction
- Result = Total no. of positive / Total no. of samples collected, " / " = Tested not done,