

THE UNIVERSITY OF HONG KONG - LABORATORY ANIMAL UNIT - UNIT LABORATORY
Minimal Diseases Experimental Holding Area - LAU Building (MDA) : Mouse Health Surveillance Data Year 2019

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 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Hantaan Virus [HANT]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Prospect Hill Virus [PHV]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Lactate Dehydrogenase Elevating Virus [LDV]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Lymphocytic Choriomeningitis Virus [LCMV]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Mouse Adenovirus (includes MAD 1 & 2) [MAV]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Mouse Cytomegalovirus [MCMV]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Mouse Hepatitis Virus [MHV]			CRL / Unit Lab / QMH	MFIA+ ELISA + PCR	0 / 30	0 / 30	0 / 30	0 / 30	0 / 30	0 / 28	0 / 28	0 / 38	0 / 28	0 / 28
Mouse Norovirus [MNV]					14 / 14	14 / 14	14 / 14	14 / 14	14 / 14	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12
Mouse Parvovirus rNS-1 [rNS-1]					0 / 14	0 / 14	0 / 14	0 / 14	0 / 14	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12
Mouse Parvovirus (Type 1, 2, 5) [MPV 1, 2, 5]			0 / 14	0 / 14	0 / 14	0 / 14	0 / 14	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12		
Minute Virus of Mice [MYM]			0 / 14	0 / 14	0 / 14	0 / 14	0 / 14	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12		
Mouse Thymic Virus [MTLV]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Pneumonia Virus of Mice [PVM]	CRL	MFIA	0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Polyoma Virus [POLY]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Mouse Pneumonitis Virus [K]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Reovirus Type 3 [REO]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Mouse Rotavirus-A (Epizootic Diarrhea of Infant Mice Virus)			0 / 14	0 / 14	0 / 14	0 / 14	0 / 14	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12		
Sendai Virus [SEND]			0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3		
Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII]			0 / 14	0 / 14	0 / 14	0 / 14	0 / 14	0 / 12	0 / 12	0 / 12	0 / 12	0 / 12		
2 Bacteriological Screening														
<i>Bordetella bronchiseptica</i>	Unit Lab	Culture	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Bordetella hinzii</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Burkholderia cepacia</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Campylobacter</i>	CRL	PCR	/	/	/	/	/	/	/	/	/			
<i>Cilia Associated Respiratory bacillus [CARB]</i>		MFIA	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3	0 / 3			
<i>Citrobacter rodentium</i>	Unit Lab	Culture	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Clostridium piliforme</i> (Tyzzer's bacillus)	CRL	MFIA, MFIA+PCR*	0 / 5	0 / 5	0 / 5	0 / 5	0 / 5g*	0 / 3	0 / 3	0 / 3	0 / 3			
<i>Corynebacterium bovis</i>	Unit Lab	Culture	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Corynebacterium kutscheri</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Escherichia coli, β-haemolytic</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Haemophilus spp.</i>			0 / 10	0 / 10	0 / 10	2 / 10	1 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Haemophilus parainfluenzae</i>			0 / 10	1 / 10	1 / 10	3 / 10	0 / 10	1 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Helicobacter Bilis [HBB]</i>					/	/	0 / 1	0 / 1	0 / 1	0 / 1	0 / 1	0 / 4	0 / 1	
<i>Helicobacter Ganmani [HBG]</i>					/	/	1 / 1	1 / 1	0 / 1	0 / 1	0 / 1	3 / 4	1 / 1	
<i>Helicobacter Hepaticus [HHB]</i>					/	/	0 / 1	0 / 1	1 / 1	1 / 1	1 / 1	3 / 4	1 / 1	
<i>Helicobacter Mastomyris [HBM]</i>					/	/	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	3 / 4	0 / 1	
<i>Helicobacter Rodentium [HBR]</i>					/	/	0 / 1	0 / 1	0 / 3	0 / 1	0 / 1	0 / 4	0 / 1	
<i>Helicobacter Typhlonius [HBT]</i>			/	/	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	3 / 4	1 / 1			
<i>Klebsiella oxytoca</i>	Unit Lab	Culture	0 / 11	0 / 11	0 / 12	0 / 11	0 / 11	0 / 10	4 / 9	0 / 10	0 / 9	0 / 8		
<i>Klebsiella pneumoniae</i>			0 / 11	0 / 11	0 / 12	0 / 11	0 / 11	0 / 10	0 / 9	0 / 10	0 / 9	0 / 8		
<i>Mycoplasma pulmonis [MPUL]</i>	CRL	MFIA	0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3			
<i>Pasteurella spp.</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Pasteurella haemolytica</i>	Unit Lab	Culture	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Pasteurella multocida</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Pasteurella pneumotropica</i>			0 / 10	0 / 10	0 / 10	0 / 10	2 / 10	0 / 8	2 / 8	0 / 8	0 / 8	1 / 8		
<i>Pasteurella pneumotropica-Heyl</i>	CRL	PCR	/	/	/	/	/	/	/	/	/			
<i>Pasteurella pneumotropica-Jawetz</i>			/	/	/	/	/	/	/	/	/			
<i>Proteus spp.</i>	Unit Lab	Culture	0 / 11	0 / 11	0 / 12	0 / 11	0 / 11	0 / 10	0 / 9	0 / 10	0 / 9	0 / 8		
<i>Proteus mirabilis</i>			0 / 11	0 / 11	0 / 12	0 / 11	3 / 11	5 / 10	0 / 9	0 / 10	0 / 9	0 / 8		
<i>Pseudomonas spp.</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Pseudomonas aeruginosa</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Pseudomonas alcaligenes</i>			2 / 10	0 / 10	0 / 10	2 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Pseudomonas putida</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Salmonella spp.</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Staphylococcus aureus</i>			4 / 10	3 / 10	3 / 10	2 / 10	7 / 10	2 / 8	3 / 8	5 / 8	5 / 8	1 / 8		
<i>Stenotrophomonas maltophilia</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8		
<i>Streptobacillus moniliformis</i>			Unit Lab / CRL	Culture, Culture+PCR*	0 / 10	0 / 10	0 / 11*	0 / 11*	0 / 11*	0 / 9*	0 / 9*	0 / 9*	0 / 9*	
<i>Streptococcus pneumoniae</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Streptococcus spp. β-haemolytic Lancefield group A</i>	Unit Lab	Culture	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Streptococcus spp. β-haemolytic Lancefield group B</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Streptococcus spp. β-haemolytic Lancefield group C</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Streptococcus spp. β-haemolytic Lancefield group D</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Streptococcus spp. β-haemolytic Lancefield group F</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Streptococcus spp. β-haemolytic Lancefield group G</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
3) Mycological Screening														
Dermatophytes	Unit Lab	Culture	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Encephalitozoon cuniculi</i> [ECUN]	CRL	MFIA	0 / 5	0 / 5	0 / 5	0 / 5	0 / 5	0 / 3	0 / 3	0 / 3	0 / 3			
<i>Pneumocystis spp.</i>	CRL	PCR	0 / 2	0 / 2	1 / 2	0 / 2	0 / 2	0 / 2	2 / 2	0 / 2	0 / 2			
4) Parasitological Screening														
Ecto-parasites														
Fleas, Mites and Lice	Unit Lab	Microscopic	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Demodex</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Fur mites (Myobia, Myocoptes, Radfordia)</i>			CRL	PCR	/	/	/	/	/	/	/	/		
Endo-parasites														
Helminths			0 / 22	0 / 22	0 / 22	0 / 22	0 / 22	0 / 20	0 / 20	0 / 20	0 / 20			
Pinworm			0 / 22	0 / 22	0 / 22	0 / 22	0 / 22	0 / 20	0 / 20	0 / 20	0 / 20			
<i>Aspiculuris tetraptera</i>			0 / 22	0 / 22	0 / 22	0 / 22	0 / 22	0 / 20	0 / 20	0 / 20	0 / 20			
<i>Syphacia spp.</i>			0 / 22	0 / 22	0 / 22	0 / 22	0 / 22	0 / 20	0 / 20	0 / 20	0 / 20			
<i>Cryptosporidium</i>	Unit Lab	Microscopic	0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Entamoeba spp.</i>			6 / 10	10 / 10	8 / 10	8 / 10	4 / 10	5 / 8	6 / 8	3 / 8	4 / 8			
<i>Eimeria spp.</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Giardia spp.</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Spiromucleus spp.</i>			0 / 10	0 / 10	0 / 10	0 / 10	0 / 10	0 / 8	0 / 8	0 / 8	0 / 8			
<i>Trichomonads</i>			8 / 10	8 / 10	6 / 10	9 / 10	10 / 10	8 / 8	4 / 8	4 / 8	5 / 8			
<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.
 - 1 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 other animal room screened yearly. And resident animals for PCR test on *Helicobacter spp.* were screened for each animal room biennial
- Abbreviations : CRL = Charles River Laboratories, USA, QMH = Queen Mary Hospital, 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 is marked with ^

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Room	Rm 112	Rm 124	Rm 125	Rm 127	Rm 118	Rm 118	Rm 118	Rm 128	Rm 128				
Species / Strain	Mouse/Multi-strain	Mouse/Multi-strain	Mouse/Multi-strain	Mouse/Multi-strain	Mouse NOD / SCID (New colony, IVC)	Mouse / NSG (IVC)	Mouse / Nude + (MDA Sentinel animals, IVC)	Mouse/Multi-strain (IVC)	Mouse NOD / SCID (terminated in July 2019)				
I) Virology Screening (Note 1)													
	Testing Lab (Note 2)	Test Method (Note 2)		Result (Note 3)									
Ectromelia Virus [ECTRO]	CRL	MFIA, MFIA+PCR [®]		0 / 4 ^a	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/	
Hantaan Virus [HANT]		0 / 3	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	0 / 3	/		
Prospect Hill Virus [PHV]		0 / 3	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	0 / 3	/		
Lactate Dehydrogenase Elevating Virus [LDV]		0 / 3	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	0 / 3	/		
Lymphocytic Choriomeningitis Virus [LCMV]		0 / 4	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	0 / 3	/		
Mouse Adenovirus (includes MA1 & 2) [MAV]		0 / 4	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	0 / 3	/		
Mouse Cytomegalovirus [MCMV]		0 / 3	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	0 / 3	/		
Mouse Hepatitis Virus [MHV]		CRL / Unit Lab / QMH	MFIA + ELISA + PCR		0 / 29	0 / 28	0 / 28	0 / 28	0 / 32	0 / 28	0 / 19	0 / 28	0 / 14
Mouse Norovirus [MNV]		CRL	MFIA, MFIA+PCR [®]		13 / 13 ^a	12 / 12	12 / 12	12 / 12	0 / 16 ^a	0 / 12	0 / 9	0 / 12	0 / 6
Mouse Parvovirus rNS-1 [rNS-1]			0 / 13 ^a	0 / 12	0 / 12	0 / 12	0 / 16 ^a	0 / 12	0 / 9	0 / 12	0 / 6		
Mouse Parvovirus (Type 1, 2, 5) [MPV 1, 2, 5]	0 / 13 ^a		0 / 12	0 / 12	0 / 16	0 / 16 ^a	0 / 12	0 / 9	0 / 12	0 / 6			
Minute Virus of Mice [MVM]	0 / 13 ^a		0 / 12	0 / 12	0 / 18	0 / 16 ^a	0 / 12	0 / 9	0 / 12	0 / 6			
Mouse Thymic Virus [MTLV]	0 / 3		0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/			
Pneumonia Virus of Mice [PVM]	0 / 4		0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/			
Polyoma Virus [POLY]	0 / 3		0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/			
Mouse Pneumonitis Virus [K]	0 / 3		0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/			
Reovirus Type 3 [REO]	0 / 4		0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/			
Mouse Rotavirus (ROTA-A) [Epizootic Diarrhea of Infant Mice]	0 / 13 ^a		0 / 12	0 / 12	0 / 12	0 / 16 ^a	0 / 12	0 / 9	0 / 12	0 / 6			
Sendai Virus [SEND]	0 / 4	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/				
Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII]	0 / 13 ^a	0 / 12	0 / 12	0 / 12	0 / 16	0 / 12	0 / 9	0 / 12	0 / 6				
II) Bacteriological Screening (Note 1)													
<i>Bordetella bronchiseptica</i>	Unit Lab / CRL	Culture, Culture+PCR [®]		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Bordetella hinzii</i>	Unit Lab	Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Burkholderia cepacia</i>		PCR		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Campylobacter</i>	CRL	MFIA, MFIA+PCR [®]		0 / 1	/	/	/	0 / 2	/	/	/	/	
<i>Cilia Associated Respiratory bacillus [CARB]</i>	Unit Lab	Culture, Culture+PCR [®]		0 / 4 ^a	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/	
<i>Citrobacter rodentium</i>	CRL	MFIA		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Clostridium piliforme (Tyzzer's bacillus)</i>	Unit Lab / CRL	Culture, Culture+PCR [®]		0 / 4 ^a	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/	
<i>Corynebacterium bovis</i>	Unit Lab	Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Corynebacterium kutscheri</i>		Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Escherichia coli, β-haemolytic</i>		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Haemophilus spp.</i>		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Haemophilus parainfluenzae</i>		Culture		2 / 8	2 / 8	2 / 8	1 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Helicobacter Bilis [HBB]</i>		Culture		0 / 1	/	/	/	0 / 2	0 / 2	0 / 1	/	/	
<i>Helicobacter Ganmani [HBG]</i>		CRL	PCR		1 / 1	/	/	/	0 / 2	0 / 2	0 / 1	/	/
<i>Helicobacter Hepaticus [HHB]</i>			PCR		1 / 1	/	/	/	0 / 2	0 / 2	0 / 1	/	/
<i>Helicobacter Mastomyris [HBM]</i>			PCR		1 / 1	/	/	/	0 / 2	0 / 2	0 / 1	/	/
<i>Helicobacter Rodentium [HBR]</i>			PCR		0 / 1	/	/	/	0 / 2	0 / 2	0 / 1	/	/
<i>Helicobacter Typhlonius [HBT]</i>	PCR		0 / 1	/	/	/	0 / 2	0 / 2	0 / 1	/	/		
<i>Klebsiella oxytoca</i>	Unit Lab / CRL		Culture, Culture+PCR [®]		0 / 13 ^a	0 / 11	0 / 10	0 / 10	0 / 12 ^a	0 / 10	0 / 6	0 / 14	0 / 4
<i>Klebsiella pneumoniae</i>	CRL		MFIA, MFIA+PCR [®]		0 / 13 ^a	0 / 11	0 / 10	0 / 10	0 / 12 ^a	0 / 10	0 / 6	0 / 14	0 / 4
<i>Mycoplasma pulmonis [MPUL]</i>			Culture		0 / 4 ^a	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/
<i>Pasteurella spp.</i>	Unit Lab		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4
<i>Pasteurella haemolytica</i>			Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4
<i>Pasteurella multocida</i>		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Pasteurella pneumotropica</i>		Culture		3 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Pasteurella pneumotropica-Heyl</i>		Culture		0 / 1	/	/	/	0 / 2	/	/	/	/	
<i>Pasteurella pneumotropica-Javetz</i>	CRL	PCR		1 / 1	/	/	/	0 / 2	/	/	/		
<i>Proteus spp.</i>	Unit Lab	Culture		0 / 11	0 / 10	0 / 9	0 / 9	0 / 9	0 / 5	0 / 13	0 / 4		
<i>Proteus mirabilis</i>	Unit Lab / CRL	Culture, Culture+PCR [®]		6 / 13 ^a	1 / 11	0 / 10	0 / 10	0 / 12 ^a	0 / 10	0 / 6	0 / 14	0 / 4	
<i>Pseudomonas spp.</i>	Unit Lab	Culture		0 / 8	0 / 8	0 / 8	1 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Pseudomonas aeruginosa</i>	Unit Lab / CRL	Culture, Culture+PCR [®]		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Pseudomonas alcaligenes</i>		Culture		0 / 8	0 / 8	1 / 9	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Pseudomonas putida</i>		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Salmonella spp.</i>	Unit Lab / CRL	Culture, Culture+PCR [®]		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Staphylococcus aureus</i>	Unit Lab	Culture		2 / 9 ^a	3 / 8	5 / 8	3 / 8	8 / 10 ^a	7 / 8	4 / 4	6 / 8	2 / 4	
<i>Stenotrophomonas maltophilia</i>		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus moniliformis</i>		Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 5 ^a	0 / 8	0 / 4	
<i>Streptococcus pneumoniae</i>		Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus spp. β - haemolytic Lancefield group A</i>		Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus spp. β - haemolytic Lancefield group B</i>		Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus spp. β - haemolytic Lancefield group C</i>		Culture		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus spp. β - haemolytic Lancefield group D</i>		Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus spp. β - haemolytic Lancefield group F</i>		Unit Lab	Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Streptococcus spp. β - haemolytic Lancefield group G</i>		Unit Lab / CRL	Culture, Culture+PCR [®]		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10 ^a	0 / 8	0 / 4	0 / 8	0 / 4
<i>Yersinia enterocolitica</i>	CRL	PCR		/	/	/	/	0 / 2	/	/	/		
<i>Yersinia pseudotuberculosis</i>		PCR		/	/	/	/	0 / 2	/	/	/		
III) Mycological Screening (Note 1)													
Dermatophytes	Unit Lab	Culture		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Encephalitozoon cuniculi [ECUN]</i>	CRL	MFIA, MFIA+PCR [®]		0 / 3	0 / 3	0 / 3	0 / 3	0 / 7 ^a	0 / 3	0 / 3	0 / 3	/	
<i>Pneumocystis spp.</i>	CRL	PCR		1 / 3	0 / 2	0 / 2	0 / 2	0 / 10	0 / 8	0 / 6	0 / 2	0 / 4	
IV) Parasitological Screening (Note 1)													
Ecto-parasites													
Fleas, Mites and Lice	Unit Lab	Microscopic		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Demodex</i>	Unit Lab/CRL	Microscopic		0 / 9 ^a	0 / 8	0 / 8	0 / 8	0 / 10	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Fur mites (Myobia, Myocoptes, Radfordia)</i>	CRL	PCR		0 / 1	/	/	/	0 / 2	/	/	/		
Endo-parasites													
<i>Helminths</i>	Unit Lab	Microscopic		0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 16	0 / 20	0 / 10	
<i>Pinworm</i>		Microscopic		0 / 21 ⁵	0 / 20	0 / 20	0 / 20	0 / 22 ⁵	0 / 20	0 / 16	0 / 20	0 / 10	
<i>Aspicularis tetraptera</i>		Microscopic		0 / 21 ⁵	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 16	0 / 20	0 / 10	
<i>Syphacia spp.</i>		Microscopic		0 / 21 ⁵	0 / 20	0 / 20	0 / 20	0 / 20	0 / 20	0 / 16	0 / 20	0 / 10	
<i>Cryptosporidium spp.</i>		Microscopic+PCR ⁵		0 / 9 ⁵	0 / 8	0 / 8	0 / 8	0 / 10 ⁵	0 / 8	0 / 4	0 / 8	0 / 4	
<i>Entamoeba spp.</i>		Microscopic		8 / 9 ⁵	4 / 8	8 / 8	3 / 8	0 / 10 ⁵	0 / 8	0 / 4	4 / 8	4 / 4	
<i>Eimeria spp.</i>		Unit Lab	Microscopic		0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4
<i>Giardia spp.</i>		Unit Lab/CRL	Microscopic		0 / 9 ⁵	0 / 8	0 / 8	0 / 8	0 / 10 ⁵	0 / 8	0 / 4	0 / 8	0 / 4
<i>Spiroplasma spp.</i>			Microscopic+PCR ³		0 / 8 ⁵	0 / 8	0 / 8	0 / 8	0 / 8	0 / 8	0 / 4	0 / 8	0 / 4
<i>Spiroplasma muris</i>		CRL	PCR		0 / 1	/	/	/	0 / 2	/	/	/	
<i>Trichomonads</i>	Unit Lab	Microscopic		8 / 8	0 / 8	5 / 8	8 / 8	0 / 8	0 / 8	0 / 4	2 / 8	0 / 4	
<i>Trichomonas spp.</i>	CRL	PCR		0 / 1	/	/	/	0 / 2	/	/	/		

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 *Streptococcus moniliformis* for each animal room biennial.
 - 4 sentinel animals for Bacteriology, Mycology & Parasitology screening 6-monthly
 - 2 resident animals for PCR test on *NOD SCID* & NSG colonies quarterly and other animal room screened yearly. And resident animals for PCR test on *Helicobacter spp.* were screened for each animal room biennial
- Abbreviations : CRL = Charle River Laboratories, USA, QMH = Queen Mary Hospital 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 ^, # & "5"

Room	Rm 101		
Species / Strain	Rat/Multi-strain		
I) Virology Screening (Note 1)	Testing Lab (Note 2)	Test Method (Note 2)	Result (Note 3)
Hantaan Virus [HANT]	CRL	MFIA	0 / 3
Lymphocytic Choriomeningitis Virus [LCMV]			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 Rotavirus (ROTA-B) (infectious diarrhea of infant rats) [IDIR]			0 / 3
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>			0 / 8
<i>Cilia Associated Respiratory bacillus [CARB]</i>	CRL	MFIA	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	0 / 1
<i>Helicobacter Ganmani [HBG]</i>			1 / 1
<i>Helicobacter Hepaticus [HBH]</i>			0 / 1
<i>Helicobacter Mastomyrinus [HBM]</i>			0 / 1
<i>Helicobacter Rodentium [HBR]</i>			1 / 1
<i>Helicobacter Typhonius [HBT]</i>			0 / 1
<i>Klebsiella oxytoca</i>			Unit Lab
<i>Klebsiella pneumoniae</i>	0 / 8		
<i>Mycoplasma pulmonis [MPUL]</i>	CRL	MFIA	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>			2 / 8
<i>Proteus spp.</i>			0 / 8
<i>Proteus mirabilis</i>			8 / 8
<i>Pseudomonas spp.</i>			0 / 8
<i>Pseudomonas aeruginosa</i>			0 / 8
<i>Pseudomonas alcaligenes</i>			0 / 8
<i>Pseudomonas putida</i>			0 / 8
<i>Salmonella spp.</i>	0 / 8		
<i>Staphylococcus aureus</i>	3 / 8		
<i>Stenotrophomonas maltophilia</i>	0 / 8		
<i>Streptobacillus moniliformis</i>	Unit Lab/CRL	Culture, Culture + PCR [^]	0 / 9 [^]
<i>Streptococcus pneumoniae</i>	Unit Lab	Culture	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 E</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
Demodex			0 / 8
Endo-parasites			
Helminths			
Pinworm	Unit Lab	Microscopic	0 / 20
<i>Aspicularis tetraptera</i>			0 / 20
<i>Syphacia spp.</i>			0 / 20
<i>Cryptosporidium spp.</i>			0 / 8
<i>Entamoeba spp.</i>			4 / 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 : -

1. 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
- Resident animals for PCR test on *Helicobacter spp.* were screened for each animal room biennial

2. Abbreviations: CRL = Charles River Laboratories, USA; MFIA = Multiplexed Fluorometric ImmunoAssay (antibody testing) PCR = Polymerase Chain Reaction

3. Result = Total no. of positive / Total no. of samples collected, " / " = Tested not done, Additional test method is marked with ^