



CCMR Animal Health Monitoring Frequency

	Test method	Test profile	Frequency	Schedule
Specific Pathogen Free Area (SPFA)				
IVC rooms	PCR	68 agents PCR panel	Quarterly	Mar, Jun, Sep, Dec
	PBMPS	/	Yearly	Rotational
Open top cages	MFIA	Selective	Quarterly	Mar, Jun, Dec
		Full		Sep
	PCR	<i>Pneumocystis sp.</i> , <i>Helicobacter sp.</i> , <i>Streptobacillus moniliformis</i>	Once every 2 years	Rotational
	PBMPS	/	Twice yearly	Rotational
Minimal Disease Area (MDA)				
Max barrier	PCR	68 agents PCR panel	Quarterly	Mar, Jun, Sep, Dec
	PBMPS	/	Yearly	Rotational
Standard barrier	MFIA	Selective	Quarterly	Mar, Jun, Dec
		Full		Sep
	PCR	<i>Pneumocystis sp.</i> , <i>Helicobacter sp.</i> , <i>Streptobacillus moniliformis</i>	Once every 2 years	Rotational
	PBMPS	/	Twice yearly	Rotational
Conventional Area (CA)				
DMB mouse rooms	MFIA	Full	Yearly	Rotational
DMB hamster rooms	MFIA	Selective	Quarterly	Mar, Jun, Dec
		Full		Sep
Zebrafish rooms	PCR	Zebrafish PCR panel	Yearly	Sep
FMB AR5 (IVC)	PCR	68 agents PCR panel	Yearly	Rotational
FMB AR3 (Rats)	MFIA	Full	Yearly	Rotational
CA-KA	MFIA	Full	Yearly	Rotational

Note:

IVC: Individually ventilated cage

PBMPS: Parasitology, Bacteriology, Mycology, and Serology monitoring performed by DSD Lab, CCMR



Full profile (Mouse)

1	<i>Cilia-associated respiratory bacillus</i> [CARB]
2	Ectromelia Virus [ECTRO]
3	<i>Encephalitozoon cuniculi</i> [ECUN]
4	Hantaan Virus [HANT]
5	Prospect Hill Virus [PHV]
6	Lactate Dehydrogenase Elevating Virus [LDV]
7	Lymphocytic Choriomeningitis Virus [LCMV]
8	Mouse Adenovirus {includes Mouse Adenovirus Type 1 (MAd FL) [MAV-1] & Mouse Adenovirus Type 2 (MAd K87) [MAV-2]}
9	Mouse Cytomegalovirus [MCMV]
10	Mouse Hepatitis Virus [MHV]
11	Mouse Norovirus [MNV]
12	Mouse Parvovirus rNS-1 [rNS-1]
13	Mouse Parvovirus Type 1, 2 & 5 [MPV 1,2, 5]
14	Minute Virus of Mice [MVM]
15	Mouse Thymic Virus [MTLV]
16	<i>Mycoplasma pulmonis</i> [MPUL]
17	Pneumonia Virus of Mice [PVM]
18	Polyoma Virus [POLY]
19	Mouse Pneumonitis Virus [K]
20	Reovirus Type 3 [REO]
21	Mouse Rotavirus (ROTA-A) {Epizootic Diarrhea of Infant Mice Virus} [EDIM]
22	Sendai Virus [SEND]
23	Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII]
24	Tyzzer's bacillus (<i>Clostridium piliforme</i>) [CPIL]

Selective profile (Mouse)

1	Mouse Hepatitis Virus [MHV]
2	Mouse Norovirus [MNV]
3	Mouse Parvovirus rNS-1 [rNS-1]
4	Mouse Parvovirus (Type 1, 2, 5) [MPV 1, 2, 5]
5	Minute Virus of Mice [MVM]
6	Mouse Rotavirus [ROTA-A] {Epizootic Diarrhea of Infant Mice Virus} [EDIM]
7	Theiler's Murine Encephalomyelitis Virus [TMEV/GDVII]



Full profile (Rat)

1	<i>Cilia-associated respiratory bacillus</i> [CARB]
2	<i>Encephalitozoon cuniculi</i> [ECUN]
3	Hantaan Virus [HANT]
4	Lymphocytic Choriomeningitis Virus [LCMV]
5	Mouse Adenovirus {includes Mouse Adenovirus Type 1 (MAd FL) [MAV-1] & Mouse Adenovirus Type 2 (MAd K87) [MAV-2]}
6	<i>Mycoplasma pulmonis</i> [MPUL]
7	<i>Pneumocystis carinii</i> [PCAR] {previously referred to as Rat Respiratory Virus ("RRV")}
8	Pneumonia Virus of Mice [PVM]
9	Rat Coronavirus/Sialodacryoadenitis Virus [RCV / SDAV]
10	Parvovirus [NS-1]
11	Rat Parvovirus [RPV]
12	Kilham Rat Virus [KRV]
13	Toolan's H-1 Virus [H-1]
14	Rat Minute Virus [RMV]
15	Rat Rotavirus (ROTA-B){infectious diarrhea of infant rats} [IDIR]
16	Reovirus Type 3 [REO]
17	Sendai Virus [SEND]
18	Rat Theilovirus [RTV]
19	Tyzzler's bacillus (<i>Clostridium piliforme</i>) [CPIL]

Selective profile (Rat)

1	<i>Mycoplasma pulmonis</i> [MPUL]
2	Pneumonia Virus of Mice [PVM]
3	Rat Coronavirus/ Sialodacryoadenitis Virus [RCV / SDAV]
4	Parvovirus [NS-1]
5	Rat Parvovirus [RPV]
6	Kilham Rat Virus [KRV]
7	Toolan's H-1 Virus [H-1]
8	Rat Minute Virus [RMV]
9	Rat Theilovirus [RTV]
10	Tyzzler's bacillus (<i>Clostridium piliforme</i>) [CPIL]

Full profile (Hamster)

1	<i>Sendai virus</i> [SEND]
2	Parainfluenza virus (Type 5) [PIV-5]
3	Pneumonia virus of mice [PVM]
4	Reovirus [REO]
5	Lymphocytic choriomeningitis virus [LCMV]
6	<i>Encephalitozoon cuniculi</i> [ECUN]
7	Tyzzler's bacillus (<i>Clostridium piliforme</i>) [CPIL]



Full profile (Rabbit)

1	<i>Cilia-associated respiratory bacillus</i> [CARB]
2	<i>Encephalitozoon cuniculi</i> [ECUN]
3	Rabbit Adenovirus [RbAV]
4	Rabbit Enteric Coronavirus [RbEC]
5	Rabbit Pox Virus (Myxomatosis Virus) [RbPV]
6	Rabbit Haemorrhagic Disease Virus [RHDV]
7	Rabbit Rotavirus [ROTA]
8	Parainfluenza Virus (Type 1) [PIV-1]
9	Parainfluenza Virus (Type 2) [PIV-2]
10	<i>Toxoplasma gondii</i> [TOXO]
11	<i>Treponema paraluis-cuniculi</i> [TREP]
12	Tyzyer's bacillus (<i>Clostridium piliforme</i>) [CPIL]

Selective profile (Rabbit)

1	<i>Encephalitozoon cuniculi</i> [ECUN]
2	Rabbit Haemorrhagic Disease Virus [RHDV]
3	Rabbit Rotavirus [ROTA]
4	Tyzyer's bacillus (<i>Clostridium piliforme</i>) [CPIL]

Zebrafish PCR panel

1	Infectious Spleen and Kidney Necrosis Virus (ISKNV)
2	Infectious Pancreatic Necrosis Virus (IPNV)
3	<i>Aeromonas hydrophila</i>
4	<i>Edwardsiella ictaluri</i>
5	<i>Flavobacterium columnare</i>
6	<i>Mycobacterium abscessus</i>
7	<i>Mycobacterium chelonae</i>
8	<i>Mycobacterium fortuitum</i>
9	<i>Mycobacterium haemophilum</i>
10	<i>Mycobacterium marinum</i>
11	<i>Mycobacterium peregrinum</i>
12	<i>Pseudoloma neurophilia</i> (Fungi)
13	<i>Pleistophora hyphessobryconis</i> (Fungi)
14	<i>Saprolegnia brachydans</i> (Fungi)
15	<i>Ichthyophthirius multifiliis</i> (Protozoa)
16	<i>Piscinoodinium pillulare</i> (Dinoflagellate)
17	<i>Pseudocapillaria tomentosa</i> (Nematode)



68 agents PCR panel

1	Ectromelia Virus [ECTRO]
2	Hantaan Virus [HANT]
3	Prospect Hill Virus [PHV]
4	Lactate Dehydrogenase Elevating Virus [LDV]
5	Lymphocytic Choriomeningitis Virus [LCMV]
6	Mouse Adenovirus (includes MAd 1 & 2) [MAV]
7	Mouse Cytomegalovirus [MCMV]
8	Mouse Hepatitis Virus [MHV]
9	Mouse Norovirus [MNV]
10	Mouse Parvovirus rNS-1 [rNS-1]
11	Mouse Parvovirus (Type 1, 2, 5) [MPV 1, 2, 5]
12	Mouse Thymic Virus [MTLV]
13	Pneumonia Virus of Mice [PVM]
14	Polyoma Virus [POLY]
15	Mouse Pneumonitis Virus [K]
16	Reovirus Type 3 [REO] / (Type 1-4)
17	Mouse Rotavirus (ROTA-A) [Epizootic Diarrhea of Infant Mice Virus (EDIM)]
18	Sendai Virus [SEND]
19	Theiler's Murine Encephalomyelitis Virus [TMEV / GDVII]
20	Mouse kidney parvovirus [MKPV]
21	Astrovirus-1
22	Astrovirus-2
23	<i>Bordetella bronchiseptica</i>
24	<i>Bordetella pseudohinzii</i>
25	<i>Campylobacter</i>
26	<i>Cilia Associated Respiratory bacillus</i> [CARB]
27	<i>Citrobacter rodentium</i>
28	<i>Clostridium piliforme</i> (Tyzzer's bacillus)
29	<i>Corynebacterium bovis</i>
30	<i>Corynebacterium kutscheri</i>
31	<i>Helicobacter</i> genus / spp.
32	<i>Helicobacter Bilis</i> [HBB]
33	<i>Helicobacter Ganmani</i> [HBG]
34	<i>Helicobacter Hepaticus</i> [HBH]
35	<i>Helicobacter Mastomyrinus</i> [HBM]
36	<i>Helicobacter Rodentium</i> [HBR]
37	<i>Helicobacter Typhlonius</i> [HBT]
38	<i>Klebsiella oxytoca</i>
39	<i>Klebsiella pneumoniae</i>
40	<i>Mycoplasma pulmonis</i> [MPUL]
41	<i>Pasteurella multocida</i>
42	<i>Rodentibacter heylii</i> (<i>P. pneumotropica</i> -Heyl)
43	<i>Rodentibacter pneumotropicus</i> (<i>P. pneumotropica</i> -Jawetz)
44	<i>Proteus mirabilis</i>
45	<i>Pseudomonas aeruginosa</i>
46	<i>Salmonella</i> spp.
47	<i>Staphylococcus aureus</i>
48	<i>Streptobacillus moniliformis</i>



68 agents PCR panel (cont')	
49	<i>Streptococcus pneumoniae</i>
50	<i>Streptococcus</i> spp. b - haemolytic Lancefield group A
51	<i>Streptococcus</i> spp. b - haemolytic Lancefield group B
52	<i>Streptococcus</i> spp. b - haemolytic Lancefield group C
53	<i>Streptococcus</i> spp. b - haemolytic Lancefield group G
54	<i>Yersinia enterocolitica</i>
55	<i>Yersinia pseudotuberculosis</i>
56	<i>Encephalitozoon cuniculi</i> [ECUN]
57	<i>Pneumocystis</i> spp.
58	<i>Demodex</i> Fur mites
59	<i>Myobia</i>
60	<i>Myocoptes</i>
61	<i>Radfordia</i>
62	Pinworm
63	<i>Cryptosporidium</i> spp.
64	<i>Entamoeba</i> spp.
65	<i>Giardia</i> spp.
66	<i>Spironucleus</i> spp./ <i>muris</i>
67	<i>Toxoplasma gondii</i> [TOXO]
68	<i>Trichostrongylus axei</i> spp.

Inbred mouse line genetic monitoring

Test method: 32 SNP for genetic contamination or equivalent

Frequency: Once every 1-2 years

IgG level for inbred mouse lines (leakiness)

Frequency: Once every 2 years