



**Symbol:**

C/B/DW/V = Bacterial monitoring of used Cage-tops, Drinking Bottles & Drinking Water inside bottles in SPFBA & MDA (Once Yearly / Room) by Disease Surveillance and Diagnostic Laboratory (DSD Lab), CCMR: -

- a) C = Cage-tops have been used for 8 weeks & 2 weeks in SPFBA & MDA respectively
- b) B = Drinking bottles have been used for 4 weeks except weekly for immuno-deficient mice
- c) DW = Drinking water inside bottle has not been replaced for one week in mouse & rat colonies only
- d) V = Van of CCMR disinfection monitoring, 6 Samples / Twice Yearly

Air = Bacteriological & fungal monitoring of supply air in animal rooms & corridor of 10A Building, Dexter H.C. Man Building, FMB Building & Kadoorie Building by CCMR (Twice Yearly)

Sanitation = Sanitation monitoring (Yearly / Animal Room / Location Monitoring in Animal Area by DSD Lab)

EQ / DT = Equipment & Dunk Tank Monitoring Twice Yearly by DSD Lab

- (i) 6 Samples / Monitoring for Bottle Washer, Tunnel Washer & Cabinet Washer
- (ii) ~14 Samples / Monitoring for Dunk Tank

Genetic = Genetic monitoring by Envigo RMS, UK / Charles River Laboratories, USA (Once Yearly)

IgG = IgG antibody level (functional test) monitoring by Envigo RMS, UK / Charles River Laboratories, USA (Once Yearly)

PRIA = Rabbit 23 Agent PRIA Screening for rabbit colonies (Quarterly / Animal Room) by Charles River Laboratories, USA  
10 Fur samples, 10 Faecal samples, 10 Oral swabs

PBMPS = Postmortem, Bacteriological, Mycological & Parasitological Screening for rat, mouse & hamster colonies by DSD Lab

PBMPS = PRIA screening by Charles River Laboratories, USA (March, June, September & December)

Twq = Tap water quality monitoring (pH value, Colour, Turbidity, Conductivity, Iron, Lead, Cadmium, Chromium, Nickel, *Escherichia coli*, Total Coliforms & Heterotrophic plate count) in May every year by an out-sourced laboratory via the Estates Office

Twp = Tap water Parasitological Monitoring in May every year by AFCD

SS /PCR = Serological screening / Polymerase Chain Reaction test by Envigo RMS, UK / Charles River Laboratories, USA

**Note :**

1. Tap water:- Total 22 samples (post-UV /faucet type filter) in 10A Building, Dexter H.C. Man Building, FMB Building & Kadoorie Building [10A Bldg x 3, SPFBA x 2, MDA x 2, CA-DMB x 4, CA-FMB x 4 & CA-LA x 2, CA-KA x 2] & 3 control samples (untreated water) are tested every month by DSD Lab for E.coli, total coliform, heterotrophic plate count and parasites.
2. Autoclave:- 1 biological indicator (*Geobacillus stearothermophilus*) / autoclave / week from CA-KA, MDA & DSD Lab, processed by DSD Lab  
3 biological indicators (*Geobacillus stearothermophilus*) / autoclave / week from Service Area, processed by SPFBA.
3. Number of Animals for
  - (i) Postmortem, Bacteriological, Mycological & Parasitological Screening (PBMPS) by DSD Lab, 4 Sentinel animals / animal room / twice yearly screening  
(Remark : To cater for unexpected mortality / morbidity, the actual quantity of sentinels animals required per animal room is as follows:  
6 Sentinel animals / Screening. [i.e.12 Sentinel animals / year] )
  - (ii-1) Routine Serological Screening (SS) / PCR by Envigo RMS, UK / Charles River Laboratories, USA, (ii-2) MHV & Pinworm Screening by DSD Lab

a) Routine Serological Screening / MHV / Pinworm Screening in Animal Areas:-

Area	Animal Room	SS	MHV	Pin-worm	Frequency	No of Animals / Animal Room / Screening	Total No of Animals Reserved / Animal Room / Year			Remark
							Mouse	Rat	Hamster	
SPFBA	All Mouse Rms	✓	✓	/	3-Monthly	3	24	/	/	(1). To cater for unexpected mortality / morbidity in animal rooms, additional animals per room per year are required for SPFBA: 12 animals, MDA: 4 animals, CA-FMB (Rm AR5 Zone A, B, C, D): 12 animals, CA-DMB (Rm E317A): 12 animals (2). 3-monthly serological screening:- a) Selective-profile to be performed in March, June & December in animal rooms. b) Full-profile to be performed in September in animal rooms.
	All Rat Rms	✓	/	/	3-Monthly	3	/	24	/	
MDA	All Mouse Rms	✓	✓	/	3-Monthly	3	16	/	/	
	Rat Rm. 101	/	✓	✓	Monthly	2	16	/	/	
		✓	/	/	3-Monthly	3	/	12	/	
CA-FMB	Mouse Rms:- AR5 Zone A, B, C, D	✓	✓	/	3-Monthly	2	20	/	/	
	All Rat Rms	✓	/	/	Yearly	2	/	4	/	
CA-DMB	Hamster Rm:- E316 & E317	✓	/	/	3-Monthly	3	/	/	24	
	Mouse Rms:- E216, E217 & E218	✓	✓	/	Yearly	2	5	/	/	
CA-Laboratory	All Mouse Rms	✓	✓	/	Yearly	2	5	/	/	
CA-KA	Mouse Rms:- 8S20, 8S21 & 8S22	✓	✓	/	Yearly	2	5	/	/	
	Rat Rms:- 8S18	✓	/	/	Yearly	2	/	4	/	
CA - Department Satellite Animal facilities	Mouse Rms:- T22-004, T22-005, T22-009, 606, 733, L10-16, L10-18, L10-25, L10-26,	✓	✓	/	Yearly	2	3	/	/	
	Rat Rms:- L10-27	✓	/	/	Yearly	2	/	3	/	

Note: 6 serum samples per 3-Monthly serological screening of rabbit colony in SPFBA.

b) Other PCR tests

- *Helicobacter spp.* : Biennial for mouse/rat room; one pooled caecal sample from sentinel animals in SPFBA & one pooled fecal pellets from users' animals in MDA, No PCR test for CA.
- *Streptobacillus moniliformis* : Biennial for mouse/rat/hamster room; one pooled caecal sample from sentinel animals in SPFBA & MDA, No PCR test for CA.
- *Pneumocystis spp.* : Biennial for mouse room; two pooled lung samples/room from 4 mice in SPFBA and ICR, NOD SCID & NSG mice 3-monthly only in MDA. No PCR test for CA

4. Genetic Monitoring of inbred animals for genetic contamination in SPFBA & MDA (NOD SCID & NSG mice only) by Envigo RMS, UK / Charles River Laboratories, USA:-

- Representative ear punch samples will be taken from the colony & pooled for 32 or 48 Single Nucleotide Polymorphism (SNP) testing.

5. Functional test (IgG level monitoring) for SCID, NODSCID and NSG mice performed by Envigo RMS, UK / Charles River Laboratories, USA

Species / Strain	Frequency
Mouse - C.B-17/4cr-scld (SCID)	Yearly
Mouse - NOD.CB17-Prkdc <sup>scld</sup> /J (NOD SCID)	Yearly
Mouse - NOD.Cg-Prkdc <sup>scld</sup> -Il2rg <sup>tm1Wjl</sup> /SzJ (NSG)	Yearly