



**Symbol:**

C/B/DW/V = Bacterial monitoring of used Cage-tops, Drinking Bottles & Drinking Water inside bottles in SPFBA & MDA (Once Yearly / Room) by Centre Laboratory: -

- 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 2 weeks for guinea-pig & 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 LAU Building, Dexter H.C. Man Building, FMB Building & Kadoorie Building by HKU Safety Office (Twice Yearly)

Sanitation = Sanitation monitoring (Yearly / Animal Room / Location Monitoring in Animal Area by Centre Laboratory)

EQ / DT = Equipment & Dunk Tank Monitoring Twice Yearly by Centre Laboratory

- (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)

BP = Bacteriological & Parasitological Screening for rabbit colonies (Quarterly or Biannual / Animal Room) by Centre Laboratory:-  
3 or 6 Faecal samples, 3 or 6 Ear swabs & 3 or 6 Nasal swabs/Monitoring

PBMPS = Postmortem, Bacteriological, Mycological & Parasitological Screening for rat, mouse & guinea pig colonies by Centre Laboratory

PBMPS (interceptor) = 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 a private laboratory via the Estates Office

Twp = Tap water Parasitological Monitoring in May every year by Government Vet. Lab. (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 / counter top filter) in LAU Building, Dexter H.C. Man Building, FMB Building & Kadoorie Building [LAU 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 two months by Centre Laboratory for E.coli and total coliform and parasites.
2. Autoclave:- 1 biological indicator (*Geobacillus stearothermophilus*) / autoclave / week from CA-KA, MDA & Centre Lab, processed by Centre Laboratory.  
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 Centre Laboratory, 4 Sentinel animals / animal room / twice yearly screening  
(Remark : To cater for unexpected mortality / morbidity, the actual quantity of sentinel 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 Microbiology Laboratory, Queen Mary Hospital & Centre Laboratory respectively.

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	Guinea-pig	
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 AR6, AR7 & AR8): 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	/	
	Guinea-pig Rm. 201	✓	/	/	3-Monthly	3	/	/	24	
MDA	All Mouse Rms	✓	✓	/	3-Monthly	3	16	/	/	
		/	✓	✓	Monthly	2	16	/	/	
	Rat Rm. 101	✓	/	/	3-Monthly	3	/	12	/	
		/	/	✓	Monthly	2	/	16	/	
CA-FMB	Mouse Rms:- AR6, AR7 & AR8	✓	✓	/	3-Monthly	2	20	/	/	
	Other Mouse Rms	✓	✓	/	Yearly	2	5	/	/	
	All Rat Rms	✓	/	/	Yearly	2	/	4	/	
CA-DMB	Mouse Rms:- EG308 & EG316A	✓	✓	/	Yearly	2	5	/	/	(1). To cater for unexpected mortality / morbidity / confirmatory test / additional test(s), 1 or 3 additional mice / 1 or 2 additional rats per room per year are required for Departmental Satellite Animal facilities and CA which carry out screening once yearly. (2). Yearly serological screening:- Full-profile to be performed in animal rooms.
CA-Laboratory	All Mouse Rms	✓	✓	/	Yearly	2	5	/	/	
	Mouse Rms:- 8S20, 8S21 & 8S22	✓	✓	/	Yearly	2	5	/	/	
CA-KA	Rat Rms:- 8S18	✓	/	/	Yearly	2	/	4	/	
	Mouse Rms:- T22-004, T22-005, T22-009, 606, 733, L10-16, L10-18, L10-25, L10-26,	✓	✓	/	Yearly	2	3	/	/	
CA - Department Satellite Animal facilities	Rat Rms:- L10-27	✓	/	/	Yearly	2	/	3	/	

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

b) PCR Screening:-

- *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/guinea pig 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, NODSCID & NSG mice 3-monthly only in MDA. No PCR test for CA

4. Genetic Monitoring of inbred animals for genetic contamination in SPFBA & MDA (NODSCID & 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 testing.

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

Species / Strain	Frequency	No. of Animals / Strain
Mouse - C.B-17/lcr-scid (SCID)	Yearly	30
Mouse - C.B-17/lcr-scid-bg (SCID Beige)	Yearly	30
Mouse - NOD.CB17-Prkde <sup>csJ</sup> /J (NODSCID)	Yearly	30
Mouse - NOD.Cg-Prkde <scid> Il2rg<tm1Wj>/Sj (NSG)	Yearly	30