The University of Hong Kong Centre for Comparative Medicine Research (CCMR) Centre Laboratory

Animal Health Screening and Environmental / Equipment / Genetic / IgG Monitoring Schedule for 2021

Second Column					creening and		al / Equipr	nent / Ge										
Company	Species/Strain	Room					(i)	RP: Onarte										
Part			sentinels for	for	animals for	animals for	(iii) PBMPS (Interceptor): Quarterly for Rm.204, (iv) SS: Triannual for all species [Note 3(ii)],											
1																		
Company Comp			Year			Immuno-			Mar			June	July		Sept		Nov	Dec SS/PCR
Column C			[Note 3]			dencient strain			55/FCR			SS/FCR	Genetic+1gG		SS/PCR			SS/PCR
The control of the co		ring					1											
## COMPANY CALLES OF THE PROPERTY OF THE PROPE	1.1 Specific Pathogen Free Breeding Area Guinea Pig/DH (Dunkin Hartley)	201	36	0	0	0				PBMPS						PBMPS	I	I
SECRETARY CONTROL STATE OF THE PROPERTY OF THE	<u> </u>	220	26	0	0							DDMDS						PBMPS
Tambor Man Merch	Rat/CD(SD)IGS (Sprague Dawley)	222					PBMPS					1 D.VII 3	PBMPS					TBMIS
10 10 10 10 10 10 10 10	Rat/CD(SD)IGS (Sprague Dawley) MonocoNow ICB								PRMPS		PBMPS	PRMPS			PRMPS		PBMPS	PBMPS
THE CONTROL OF CONTROL	(i). Mar, Jun, Sep, Dec for Interceptor screening																	(Interceptor
March 1965										PBMPS						PBMPS		
Second Continue Con	Mouse/CBA/Ca (Genetic monitoring in 2022)	207	36	2	0	0		PBMPS						PBMPS				
The Control Co	Mouse/C57BL/6J (Genetic monitoring in 2022)	208	36	4	0	0	PBMPS											
Second Control Contr	Mouse/C57BL/6N (Genetic monitoring in 2021)										PBMPS		Genetic				PBMPS	
The content of the	2021)											PBMPS	Genetic					PBMPS
Second Content	Mouse/BALB/cAnN-nu (Nude) (Genetic monitoring in 2021)	212	36	4	10	0				PBMPS			Genetic			PBMPS		
Secretary Secr	Mouse/C.B-17/Icr-scid (SCID) (Genetic monitoring vearly)			4	15	30							pps enc					
March Marc	Mouse/C.B-17/IcrHsd-Prkdc scidLyst hg (SCID Beige)	211	36	4	15	30	PBMPS											
The content		214	36	4	15	0			PRMPS				Conetic		PRMPS			
Section Sect	Mouse/ICR (CD-1)	215	36	4	0	0		PBMPS	1 DMI S					PBMPS	1 BMI S			
Part March Part	Rabbit/NZW (New Zealand White)	233	Stool, Ear, Nasal	& Blood Samples	0	0	BP			BP			BP			BP		
	Species/Strain	Room	Animal Hea	lth Screening												Ionitoring		
Part Company Part Company							(i) (ii	PBMPS: Bi	annual for a	Il species [Note	ote 3(i)], (ii)	PBMPS (Int	erceptor): Quar	terly for Rn	1.119,			
March Marc			PBMPS,	Pneumocystis	Genetic / Year	IgG / Year	(v) MHV: Moi	nthly for mic	e only [Note	3(ii)], (vi) l	Pinworm: Mo	onthly for mice &	& rats [Note				
Property			MHV,	pp.	[Note 4]	[Note 5]											Nov	Dec
2. Second Content Co					Inbred strain									MHV/				MHV / Pinworm
Mathematic Mathemati						a sa alli		/	SS/PCR			SS/PCR			SS/PCR			SS / PCR
Transfer Annual	1.2 Minimal Disease Experimental Holding Area Rat/Sentinel [Surgery, Ophthalmology, School of	101	40	0	0	0				PBMPS						PBMPS		
Management 100	Biomedical Sciences, CD(SD)IGS (Sprague Dawley)]											PRMPS						PBMPS
Marchander Marchane and Marchane and Marchane and Marchane March	Mouse/Sentinel (Multi-user)	103	44	0	0	0						1 B.VII S						TBMIS
Manus Manu										PRMPS	PBMPS					PRMPS	PBMPS	
Management Man	Mouse/Sentinel (School of Biomedical Sciences)	106	44	0	0	0			PBMPS	1210					PBMPS	15.115		
Management Man							PBMPS					PBMPS	PBMPS					PBMPS
Manufacturing Mode Section Sec	Mouse/Sentinel (Multi-user)	109	44	0				PBMPS						PBMPS				
Manus Manu	Mouse/Sentinel (Multi-user) Mouse/Sentinel (School of Biomedical Sciences)									PBMPS		PBMPS				PBMPS		PBMPS
Tage and Tage of 1 SORT	Mouse/Sentinel (Multi-user)										PBMPS						PBMPS	
Management Man	Il2rg <tm1wjl>/SzJ) [NSG] imported on 23/2/2018</tm1wjl>	118	44	16	10	30		PBMPS					Genetic + IgG	PBMPS				
No.		118	44	16	10	30			PRMPS				Genetic + IoG		PRMPS			
Manus Personal Formation (1970) Manus Personal (19	[NODSCID] new colony imported on 01/11/2018 (Genetic																	
Mary		118	44	16	0	0			PBMPS						PBMPS			
3. Mary Flows Sp. Dee for theorepairs exercised 3. Mary Flows Sp. Dee for theorepairs exercised 3. Mary Flows Sp. Dee for theorepairs exercised 3. Mary Flows Sp. Deep Flows Sp. D	Mar 2019											PBMPS						PBMPS
Manus Scalarial Mobile serving 131	(i). Mar, Jun, Sep, Dec for Interceptor screening			_	-	_												(Interceptor)
Mean-Scrient Change Chan	Mouse/Sentinel (Multi-user)											PBMPS						PBMPS
MonoScale (PC) Moles cont 128 44 0 0 0 0 PBMTS PBMTS																		
Total No. of sentine for NS1	Mouse/Sentinel (IVC, Multi-user)	128	44	0	0	0	PBMPS						PBMPS					
State-Secretarial Hodging Avea Year Note 2 1	Mouse/Sentinel (IVC, Multi-Users, Clean colonies)	128	44	0	0	0			PBMPS						PBMPS			
ManusScried (IVC) EG13 S	1.3 Conventional Experimental Holding Area				1	1												
Manus State Manus State Manus State Manus Manu																		
Name Securited (TVC)	Mouse/Sentinel (IVC) Mouse/Sentinel (IVC)																	
Manus Manu	Mouse/Sentinel (IVC)																	
Mone-Secritical Saccitical	Rat/Sentinel Monoc/Sentinel									animals held	in Conventi	onal Experin	nental Holding A	Areas				
Early Seaffield (Multi-user) AR1 4R6 20 0 0 0 0 0 MonosSecrified (Multi-user) AR6 20 0 0 0 0 0 MonosSecrified (Multi-user) AR8 AR7 20 0 0 0 0 0 0 MonosSecrified (Multi-user) AR8 AR8 20 0 0 0 0 0 MonosSecrified (Multi-user) AR8 AR8 20 0 0 0 0 0 MonosSecrified (Multi-user) AR9 AR9 AR9 AR9 AR9 AR9 AR9 AR	Mouse/Sentinel	ELG113		5	0	0	- Quarter	ly in Mar, Ju	me, Sept & I	Dec for Rooi	n AR6, AR7	& AR8						
Redescried (Multi-sury) AR5	Mouse/Sentinel						- Annuall	y for all othe	er rooms									
Moses Sentiale Medicine Mark																		
School of Biomedical Sciences & Medicino) AR8 20 0 0 0 Mones Scratinof Multi-user) AR9 5 0 0 0 0 Mones Scratinof Multi-user) AR9 5 0 0 0 0 Mones Scratinof Multi-user) AR9 8520 5 0 0 0 0 Mones Scratinof Multi-user) SS21 5 0 0 0 0 Mones Scratinof Multi-user) SS22 5 0 0 0 0 84 Mones Scratinof Multi-user) SS18 4 0 0 0 0 AB Separation Multi-user) Fortan No. centrales for SS / Year Nove S Year	Mouse/Sentinel (Medicine)	AR6	2	:0	0	0												
Mone Sential (Militi-user) AR9	Mouse/Sentinel (School of Biomedical Sciences & Medicine)																	
Mouse Sentine (Pharmacology & Pharmacy) AR10 5 0 0 0	Mouse/Sentinel (Multi-user)		_															
Mones Sential (Multi-user) SS20 5 0 0 0 0 0 0 0 0	Mouse/Sentinel (Multi-user) Mouse/Sentinel (Pharmacology & Pharmacy)																	
Manus Sentine Mail Supers SS18	Mouse/Sentinel (Multi-user)																	
Second Comparison Compari	Mouse/Sentinel (Multi-user)																	
Vear Note 3	Rat/Sentinel (Multi-user)					_												
Monse Sentine Microbiology, QMH, Block T) T22-005 3 0 0 0 0 0 0 0 0 0	1.4 Departmental Satellite Animal Facilities				1	1												
Mones Centrale (Microbiology, CMH, Bisck T) 122-009 3 0 0 0	Mouse/Sentinel (Microbiology, QMH, Block T)			3			i) Annually i	in June for se	erological sc	reening + P	BMPS							
Mones Central (Optahamology, PMB)	Mouse/Sentinel (Microbiology, QMH, Block T) Mouse/Sentinel (Microbiology, QMH, Block T)																	
Paciliatric & Adolescent Melicine, PMB	Mouse/Sentinel (Ophthalmology, FMB)	606		3	0	0												
MouseSential (Sugary, FMB)	Mouse/Sentinel (Paediatrics & Adolescent Medicine, FMB)			3	0	0												
Mone Sentinde (Surgery, PMB) L16-25 3 0 0	Mouse/Sentinel (Surgery, FMB)																	
Libe27 3 0 0 0	Mouse/Sentinel (Surgery, FMB)	L10-25		3	0	0												
1.5 Blastocyst / Sperm / Caesarean-section / EG17	Mouse/Sentinel (Surgery, FMB) Rat/Sentinel (Surgery, FMB)			3														
FLG203	1.5 Blastocyst / Sperm / Caesarean-section /	EG17/																
167 (Rats)	Importation: Re-derived animals	ELG203	10	ar)	105	120												
Grand Total number of Animals: 1824 (Mice: 1621, Rats: 167 & Guinea Pigs: 36)	total number of Animals		167	(Rats)	105 (Mice)	120 (Mice)	′	,	,	_ ′	,	,	,	,	,	_ ′		,
Sanitation	Grand Total number of Arimoles				1. Rats: 167 & C	ininea Piace 24	()	1	1	1				1	1	<u> </u>	<u> </u>	<u> </u>
/ C/B/DW/V Air / Twq/Twp / / C/B/DW/V Air / /	2. Environmental Monitoring [Note: 1]					/ /					I	Sar	itation					1
						<u> </u>	/	C/B/DW/V	Air	/		/	/ PO / PT	C/B/DW/V	Air	/	1	/

Symbol

- CIB/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 nig 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

- 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 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 Microbiology Laboratory, Queen Mary Hospital & Centre Laboratory respectively. a) Routine Serological Screening / MHV / Pinworm Screening in Animal Areas:-

Area	Animal Room	SS	MHV	Pin-	Frequency	No of Animals /	Total No of Animals Reserved			Remark
				worm		Animal Room /	/ Animal Room / Year		/ Year	
						Screening	Mouse	Rat	Guinea-pig	
	All Mouse Rms	1	/	/	3-Monthly	3	24	/	/	(1). To cater for unexpected mortality / morbidity in animal
SPFBA	All Rat Rms	1	/	/	3-Monthly	3	/	24	/	rooms, additional animals per room per year are required
	Guines-pig Rm. 201	1	/	/	3-Monthly	3	/	/	24	for SPFBA: 12 animals, MDA: 4 animals, CA-FMB (Rm AR6,
	All Mouse Rms	/	/	/	3-Monthly	3	16	/	/	AR7 & AR8): 12 animals
MDA		/	/	/	Monthly	2	16	/	/	(2). 3-monthly serological screening:-
MDA	Rat Rm. 101	/	/	/	3-Monthly	3	/	12	/	a) Selective-profile to be performed in March, June &
		/	/	1	Monthly	2	/	16	/	December in animal rooms.
CA-FMB	Mouse Rms:- AR6, AR7 & AR8	✓	1	/	3-Monthly	2	20	/	/	b) Full-profile to be performed in September in animal rooms.
	Other Mouse Rms	/	/	/	Yearly	2	5	/	/	(1). To cater for unexpected mortality / morbidity / confirmatory
	All Rat Rms	1	/	/	Yearly	2	/	4	/	test / additional test(s), 1 or 3 additional mice / 1 or 2
CA-DMB	Mouse Rms:- EG308 & EG316A	1	1	/	Yearly	2	5	/	/	additional rats per room per year are required for Departmental Satellite Animal facilities and CA which carry
CA-Laboratory	All Mouse Rms	/	1	/	Yearly	2	5	/	/	·
CA-KA	Mouse Rms:- 8S20, 8S21 & 8S22	1	1	/	Yearly	2	5	/	/	out screening once yearly. (2). Yearly serological screening:-
CA-KA	Rat Rms:- 8S18	1	/	/	Yearly	2	/	4	/	Full-profile to be performed in animal rooms.
CA - Department Satellite Animal facilities	Mouse Rms:- T22-004, T22-005, T22-009, 606, 733, L10-16, L10-18, L10- 25, L10-26,	1	1	/	Yearly	2	3	/	/	
	Rat Rms:- L10-27	1	/	/	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/Icr-scid (SCID)	Yearly	30				
Mouse - C.B-17/Icr-scid-bg (SCID Beige)	Yearly	30				
Mouse - NOD.CB17-Prkdc ^{scid} /J (NODSCID)	Yearly	30				
Mouse - NOD.Cg-Prkdc <scid> Il2rg<tm1wjl>/SzJ (NSG)</tm1wjl></scid>	Yearly	30				