PREPARED BY Name:
Designation:
Risk Assesment Date: LABORATORY: REVIEW DATE: APPROVED BY Name: Designation: Approved Date:

NEXT REVIEW DATE:

INTRODUCTION
Biological safety level: BSL 2
Biological materials manipulated in the laboratory: Bacteria/ Virus/ Cell Lines

		Risk/harzard Identification Risk Characterisation/Evaluation				Comments
			MINICAUUN KISK CHARACTERISATION/EVALUATION			
A	GENERAL HOUSEKEEPING	N= Non Compliance, Y= Compliance, NA = Not applicable	Likelihood (1-5)	Consequence (1- 5)	Risk Level (1-5)	
1	Bench tops are free from excessive clutter and clean					
2	Floors are clean and not slippery					
3	Chemical containers are not stored on the floor in aisles or near exits					
4 5	Laboratory and storage areas uncluttered and orderly (including bench-top) Aisles & exits are free from obstruction					
_	Electrical cords are in good condition					
7	Glassware is free from cracks, chips, sharp edges and other defects					
9	Walls and ceilings in good condition Chairs & stools with impermeable covers					
10	MSDS readily available (at door)					
11	Sink is in good conditions					
В	SIGNAGE					
1	Emergency information sign is posted on the main entrance door to the laboratory					
2	Danger/Warning/Caution signs are in place.					
3	Other Signages:					
5	Authorize Access No Food and Drinks					
	Type of Chemicals					
7	First Aid					
9	E xperiments in Progress Exit are clearly marked and free from obstruction					
10	All fire doors are self-closing and kept close					
11	Emergency contact numbers are clearly visible					
12	Emergency evacuation routes are clearly posted					
13	Emergency exit light are working and clear of obstruction Biohazard signage posted at lab entrance when infectious agents are present					
14	(signage lists agents and PI name/phone)					
	Posted biohazard signage includes biosafety level, required immunizations, required					
15	PPE, and required lab exit procedures					
С	GWLP & SOP					
	STANDARD MICROBIOLOGICAL PRACTICES					
1	Lab access limited/restricted when experiments or work with cultures/specimens are in progress					
	Lab personnel wash hands after handling viable materials, removing gloves, or					
3	leaving lab Handwash station					
4	Sanitizer/ Disinfectant available					
5	Disposable towels available					
6	Lab hand washing sink has hands-free, foot, knee, or automatic controls					
7	Lab sink is located near exit door No eating, drinking, smoking, handling contact lenses, applying cosmetics, or storing					
8	human food in lab					
9	Contact lens users wear safety glasses, goggles or face shields					
10	Food stored outside lab in designated cabinets/refrigerators Mechanical pipetting devices are used (i.e., no mouth pipetting)					
12	Sharps handling policies/practices in place					
13	Procedures minimize splashes/aerosols					
14	Work surfaces are decontaminated at least daily and/or at completion of work					
	Work surfaces are decontaminated after any spill/splash of viable material					
	Disinfectants are labeled for agents being used					
17	Cultures/stocks/regulated wastes are decontaminated by approved method (e.g., autoclaving) before disposal					
-1/	Materials decontaminated outside of lab are transported in durable, leak-proof,					
18	closed containers					
19	Infectious waste is decontaminated before removal for off-site disposal SPECIAL PRACTICES					
20	Lab doors kept closed when experiments in progress					
21	Lab access is limited by secure locked doors					
22	Personnel at risk of acquiring infections or for whom infections may have serious					
22	consequences are denied access to lab All personnel are advised of potential hazards prior to entering/working in lab					
	p					
23	Minimum requirements to enter/work in lab are established and enforced.					
	Lab personnel are appropriately immunized against or tested for the agents being					
25	used (e.g., HBV vaccinations, Tb skin test)					
26 27	Baseline and periodic serum samples are collected/stored as required Needle/syringe use is kept to absolute minimum					
	Only needle-locking syringes or syringes w/ permanently affixed needles are used for					
28	injection/aspiration of infectious materials					
20	Disposable needles are not bent, sheared, broken, recapped, removed from					
30	disposable syringes, or otherwise manipulated prior to disposal Sharps containers are labeled, conveniently located, and puncture resistant					
31	Nondisposable sharps containers are hard-walled and leak proof					
32	Broken glassware is only handled by mechanical means					
22	Sharps containers are decontaminated (e.g., autoclaved) prior to disposal or reprocessing					
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	Cultures, tissues, specimens, or infectious wastes are kept in covered, leak-proof				
	containers during collection, handling, processing, storage, transport or shipment.				
34					
35	Lab equipment decontaminated on routine basis w/ effective disinfectant				
	Spills/accidents are immediately reported to the lab director				
	All open work with infectious materials is performed in a BSC or equivalent				
	Plastic-backed absorbent paper is used to line BSC work surfaces				
	Spills of infectious materials are decontaminated by professional staff or personnel				
39	trained/equipped to handle concentrated infectious material.				
	Spill cleanup procedures are developed and posted.				
40	All potentially contaminated lab materials (e.g., waste, gloves, lab coats, etc.) are				
41					
	decontaminated before disposal or reuse.				
42	Personnel enter/exit lab only through clothing change & shower rooms				
42	Personnel remove ALL street clothes in outer clothing change room and don lab				
43	clothing before entering lab				
	Personnel exiting the lab remove ALL lab clothing in inner clothing change room and				
44	take a decontaminating shower				
	Soiled/used lab clothing is autoclaved before laundering				
45					
	All material is autoclaved or decontaminated before it is removed from the lab				
46					
	Viable/intact biological materials removed from the Class III BSC or BSL-4 lab are				
	packaged in a sealed non-breakable primary container inside a sealed non-breakable			1	
	secondary container and removed from lab via disinfectant dunk tank, fumigation			1	
47	chamber, or air lock.			ļ	
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D	SAFETY EQUIPMENT (PRIMARY BARRIER)	ļ	<u> </u>	<u> </u>	
	Personal Protective Equipment]			
	All personal protective equipments are inspected and maintained regularly				
	Protective gloves are available and matched to hazards involved.				
	Eye protection is available and in use in all laboratory (safety glass, goggles)				
4	Lab coats are available and in use				
5	Respirations are available and in use where required				
	Face shield available				
7	Gloves are worn if skin on hands is broken or has rash				
	Gloves are worn if hands are at risk of contacting infectious materials, infected				
9	Gloves are not worn outside lab or when touching "clean' surfaces (e.g., telephones,				
10	Gloves are disposed of when overtly contaminated, work w/infectious materials is				
	Disposable gloves are not reused.				
	Safety glasses are worn when performing procedures that pose a splash risk			İ	
	Goggles or face shield used when performing procedures that pose a splash risk				
	Respirators and face protection are used when in rooms containing infected animals.				
	respirators and race protection are used when in rooms containing invested difficults.				
14					
	Fume Hoods & Biosafety Cabinets				
	Face velocity has been checked every month (confirm date of last inspection)				
15					
16	Air Flow are not blocked.				
17	Sash(es) are in place and functional.				
18	Fluorescent lights and UV lights are functioning.				
19	Containers with volatile chemicals are capped.				
20	Fume hoods and biosafety cabinets are not overly cluttered.				
	Biosafety cabinets are calibrated annually by an certified body				
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10	Are biohazardous waste autoclaved before being sent to the designated area			
10				
G	ADMINISTRATIVE CONTROL			
	Resources			
	Is there any organization chart for the biosafety maintanence in the lab, eg: IBC, BSO,			
1	lab manager			
	Is the biosafety proceduresincorporated into the lab SOPs or adopted/prepared in			
2	the lab-specific Biosafety Manual			
	Training			
1	Training programme for lab Staff			
2	Lab personnel have read and follow biosafety procedures/practices			
	Facility			
1	Lab work separated from office work			
	·			
	Documentation and Record			
1	Is Risk Assesment Report available			
2	Is Audit/ Inspection Report available			
3	Is Training Record available			
4	Is Policies and procedures available			
	Lab Director has adopted/prepared a lab-specific Biosafety Manual and incorporated			
5	biosafety procedures into lab SOPs			
	Lab personnel are trained on the potential hazards, precautions to prevent			
6	exposures, & exposure evaluation procedures			
	Lab personnel receive annual refresher training and/or additional training as			
7	necessary			
8	Written policy/procedure on who can enter lab			
	Lab personnel are periodically tested for agent being worked with and/or periodic			
9	serum specimens are banked			
	Lab personnel have demonstrated proficiency for all procedures they will perform			
10	before working with BSL-3 agents			
	Logbook is maintained to document the date/time of each person who enters/exits			
11	the lab.			
	Accidental exposures are documented (i.e., medical evaluations, surveillance,			
12	treatment)			
13	Lab has a written emergency/accident response plan			
14	Lab has plan for reporting accidents, exposures, employee absenteeism			
15	Lab has plan for medical surveillance of potential lab-associated illnesses			