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The Leader In Research and Innovation

INSTITUTIONAL BIOSAFETY & BIOSECURITY COMMITTEE (IBBC) UNIVERSITI MALAYA

BSL 1 SELF-INSPECTION CHECKLIST

Instructions

- 1. Using the checklist below, inspect your lab and note any deficiencies that need to be addressed [the Principal Investigator (PI) may assign a senior lab member or laboratory supervisor to complete the checklist but the PI must review, date and sign the checklist.
- 2. Sign and date the completed checklist.
- 3. If you have any questions, please contact the IBBC secretariat at secretariat_ibbc@um.edu.my

Date:		
Conducted by:		
Principal Investigator(PI):		
Department/Room no.:		

1. BASIC LABORATORY - BIOSAFETY LEVEL 1

1.1 Laboratory YES NO N/A COMMENTS

- a. Limited access
- b. Proper signage: e.g. biohazard, ultraviolet light etc.
- c. Relevant SOP for work activities available and followed
- d. Laboratory equipment properly labelled (biohazardous, radioactive, toxic, etc.)

1.1.2 Laboratory Design

- a. Facility designed for easy cleaning
- b. Corridors and exits are free from obstruction
- d. All storage shelves secured

YES NO N/A COMMENTS

- e. Bench-tops waterproof and resistant to acids, alkali, organic solvents, heat, chemicals used to decontaminate the work surface.
- f. Adequate illumination/lighting provided
- g. Adequate storage space available and appropriately used
- h. Adequate ventilation
- i. Windows fitted with insect-proof screen (when windows can be opened)

1.1.3 Gas Cylinders

- a. All cylinders secured
- b. Caps on reserve cylinders
- c. Asphyxiating and hazardous gases only in designated ventilated rooms
- No excess or empty cylinders present in nondesignated areas

1.1.4 Chemicals

- Flammables stored in storage cabinet for flammables
- b Chemicals segregated properly based on intrinsic properties when stored
- Hazardous chemicals stored safely and securely
- d Working stock chemicals available in appropriate amount
- e MSDS/ CSDS is available and easily accessible for all chemicals

1.1.5 Refrigerators/Freezers/Cold Rooms

- a. No food for human consumption stored
- b. Flammables placed in explosion-proof/-safe units
- All material containing carcinogens, radioactivity and/or biohazards are labelled externally
- d. Cold-room has emergency release
- e. Cold-room has audible alarm or temperature monitoring system

1.1.6 Electrical Equipment

- YES NO N/A COMMENTS
- No overloaded extension cords or electrical strips
- b. Earths/grounds present on electrical outlets and cords
- c. No electrical connections in wet areas e.g. sinks, under showers, etc.
- All equipment and wiring in good working condition
- e. Power strips mounted off the floor
- f. Proper fuses in conduits

1.1.7 Personal Protective Equipment

- a. Eyewash available in laboratory
- b. Safety shower available
- c. Personal protective equipment available (gloves, gowns, goggles, etc.) and worn
- d. Occupants properly attired
- Laboratory coats, gowns, smocks, gloves and other personal protective clothing not worn outside the laboratory
- f. Personal protective equipment available for cryogenic storage

1.1.8 Waste Management

- a Wastes segregation implemented
- b Chemical waste containers tagged, labelled, dated and kept closed/stored
- Biohazardous waste containers appropriately handled and disposed
- All sharps (needles, broken glass, scalpel blades) are disposed in sharps bin or designated durable puncture proof containers
- e No trash on floor

1.1.9 Occupational Health and Safety Programme Available

- Hazard communication (Lab personnel advised of all potential hazards)
- b. Respiratory protection

YES NO N/A COMMENTS

- c. Hearing conservation
- d. Chemical Spill Kit available
- e. Biological Spill Kit available
- f. First Aid Kit available
- g Emergency Response Plan (ERP) in place
- h Reporting of Incidents, Accidents and Illness

1.1.10 General Engineering Controls

- a Sink available for hand-washing
- b No exposed machine parts (pulleys, gears)
- c Water purification system in good condition

1.1.11 General Practices and Procedures

- Food for human consumption stored outside the laboratory area in cabinets or refrigerators designated and used for this purpose
- b. Microwave oven(s) clearly labelled "Strictly to Laboratory Materials Only"
- Eating, drinking, smoking and/or applying of cosmetics not allowed in the laboratory
- d. Pressurized glass containers taped or shielded (i.e. vacuum traps)
- e. Mouth pipetting prohibited
- f. Mechanical pipetting devices available and used
- g. Protective laboratory clothing stored separately from street clothing

1.1.12 General Laboratory Housekeeping

- a. Bench-top cleaned and not cluttered
- b. Laboratory floor free from trip hazards
- d. Broken glassware handled by mechanical means (brush and dustpan, tongs, etc.)

		YES	NO	N/A	COMMENTS			
e.	Chemical inventory system available							
f	Pest Control program implemented							
1.1.13 Fire Protection								
a.	Sprinkler heads free and unobstructed							
b.	No wiring or tubing through door openings							
c.	Minimum passage width of 1 meter(m) in laboratory							
d.	Minimum combustibles stored in laboratory							
e.	Adequate fire extinguisher available							
f.	Fire alarm available and drills for evacuation implemented							
Note	: N/A- Not Applicable							
Othe	er comments:							
Sigr	nature and stamp of PI:			Date:				

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Adapted from: Malaysia Laboratory Biosafety and Biosecurity Policy and Guideline, Ministry of

Health Malaysia, 2015, 1st Edition (section 3.0 Laboratory Biosafety Checklist)