

Environmental Health & Safety Biosafety Level 2 (BSL-2) Commissioning Checklist

Depar	tment: Princi	pal Investigator:				
Bu	uilding: Cor	Commissioned By:				
Ro	Room(s): Date:					
Note:	 (1) A demarcation in the <u>YES</u> column indicates <i>compliance</i> (2) A demarcation in the <u>NO</u> column indicates <i>action require</i> (3) A demarcation in the <u>N/A</u> column indicates that the respective. 	ed by the PI prior to EHS comn	nissionir	ig the la	boratory	
A. Lat	boratory Facilities		YES	NO	N/A	
1.	Specific compliance documents to be kept in laboratory or be Laboratory Specific Biosafety Manual	e easily accessible online:				
	☐ TCU Integrated Laboratory Management Plan (ILMP)					
	☐ TCU Bloodborne Pathogens Exposure Control Plan					
	 □ Biosafety in Microbiological and Biomedical Laboratories □ NIH Guidelines [PDF] – April 2024 	s (BMBL), 6 th Edition (2020)				
2.	The laboratory is designed to be easily cleaned, to include:					
	 Bench tops impervious to water and resistant to acids, a moderate heat 	lkalis, organic solvents, and				
	☐ Spaces between benches, cabinets, and equipment acce	essible for cleaning				
	□ No carpets or rugs present in laboratory space					
	☐ Chairs and furniture in laboratory covered with non-porous that is easily decontaminated	s, chemical resistant material				
3.	Laboratory has appropriately labeled biohazard waste contain	ners				
4.	An autoclave for decontamination of biohazardous materials i building	s available in the same				
5.	An uncontaminated sink for hand-washing is available and ne	ear the laboratory exit				
6.	Eye wash station is functioning, readily accessible, and free	of obstruction				
7.	An insect and rodent control program has been instituted					
8.	Windows, if present and can open to the exterior, are sealed	or fitted with screens				
9.	Illumination is adequate for all activities, avoiding reflections impede vision	and glare that could				
10.	No observations indicate the activities of prohibited actions - e handling contact lenses, applying cosmetics, or storing food fo	ating, drinking, smoking, r human consumption				
11.	Laboratory doors are self-closing, unobstructed, and lockable and access controlled during experimental procedures.	. Doors to remain closed				
12.	BIOHAZARD sign is posted on the lab entrance door, which required immunizations, emergency contact numbers, and an equipment that must be worn					

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	Comments:		
B. Containment Equipment			
1.	Biological safety cabinet (BSC) is present, located away from laboratory doors or other sources of air-fluctuation or disruption to maintain BSC's airflow for containment. BSC shall be used to contain aerosol-producing activities and equipment (vortexes, blenders, sonicators, centrifuges, etc.) except where the equipment is designed to contain aerosols.		
2.	BSC has current certification from an approved vendor. All BSCs shall be recertified annually.		
3.	A chemical fume hood or externally exhausted Class II BSC is available if hazardous chemicals, volatile solvents, or radioactive materials will be used.		
4.	Vacuum lines in use are protected with liquid disinfectant traps and/or HEPA filters		
	Comments:		
C. Standard Microbiological Laboratory Practices			
1.	Work surfaces to be decontaminated routinely, at least daily, and following any spill		
2.	A written procedure for routine decontamination is readily available in the work area. All contaminated materials intended for reuse are decontaminated before washing		
3.	All wastes from the laboratory and/or animal rooms are properly packaged before disposal, according to the TCU Integrated Laboratory Management Plan		
4.	Leak-proof and closed containers are available and used to transport contaminated materials if they are removed from the laboratory for autoclaving/decontamination		
5.	Mechanical pipetting devices are available and used for all pipetting		
6.	Experiment areas of lesser biohazard potential are carefully demarcated		
7.	The PI has a documented training ensuring all laboratory personnel have a good understanding of safe microbiological technique, exposure controls/precautions, and are familiar with the biohazards in the room		
8.	Suitable disinfectants, containers for disinfectants, biohazard bags, and other applicable items to the written laboratory procedures are available at the work area		
9.	All containers holding biohazards are labeled with a biohazard sign		
Comments:			
D. Spe	ecial Practices		
1.	Mechanisms are in place to maintain inventory of all biohazards present in the laboratory and is available to personnel and emergency personnel.		
2.	Practices are in place to minimize the creation of aerosols		

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3.	Freezers and refrigerators, or other units used to store biohazards, are labeled with the biohazard symbol		
4.	Personal protective equipment (PPE), appropriate for the research conducted, is required and provided by the PI, and is not permitted to be worn outside of the laboratory.		
5.	Protocols are in place to provide medical monitoring, treatment, and surveillance, including immunizations and respirator usage, if appropriate		
6.	A process for reporting and investigating injuries/illnesses involving biohazards exists		
7.	Personnel working with infectious agents covered by TCU's Bloodborne Pathogens Exposure Control Plan have had Bloodborne Pathogen Training within the last year. All individuals have access to TCU's current Bloodborne Pathogens Exposure Control Plan		
8.	PI has justified the use of any needle and syringe procedures and has documented all persons working with these items have been shown safe handling practices. Policies for the safe handling of sharps, including reporting of all sharps injuries, are instituted.		
9.	PI maintains all information that pertains to the facility and safe work practices.		
10	A written procedure is available explaining required actions in the event of a laboratory emergency, such as accidental spills or personnel contamination. Spills and accidents resulting in overt exposure of humans to organisms are immediately reported to the Hazardous Materials Safety Manager.		
11.	Onsite and offsite transportation of biohazards is coordinated through the Hazardous Materials Safety Manager		
12	Principal Investigator understands that certain biohazardous materials and/or toxins may be of interest to persons or groups interested in terrorist or other illegal activities. Those agents that might pose a serious threat to humans, animals, agriculture, or the livestock industry shall be kept in a secure place within the laboratory. Moreover, if a request to send a dangerous organism for academic purpose is received, the PI must assure that he/she is compliant in transferring such material and that all material transfer regulations are observed.		
Comm	ents:		

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