

Syracuse University

Biohazardous Laboratory Design Criteria

Required Laboratory Features	Description of Biohazardous Research Activity			
	BSL-2 Plus Antibiotic resistant microorganisms infectious to humans, such as those in Risk Group 2 or BSL-2. Pathogens classified by CDC referenced as requiring BSL-2 Plus safety.	BSL-2 Microorganisms or DNA infectious to humans, such as those in Risk Group 2 or BSL-2. Regulated plant and/or animal pathogens. Samples or cell lines known to be contaminated with BSL-2 pathogens, or viral DNA.	Human Samples Human blood or sample(s) (i.e. tissues, urine, etc.) processing and/or testing in a manner that may produce aerosols (i.e. blending, centrifugation, homogenizing, etc.), or a significant spill or splash risk.	BSL-1 Microorganisms or DNA not known to be infectious to humans, such as those in Risk Group 1 or BSL-1 Human blood or sample(s) collection and/or storage only, with no manipulations that produce aerosols or a significant spill or splash risk. Shared equipment room (i.e. confocal) where no manipulation of potentially biohazardous material will occur.
Biosafety Cabinet	X	X	X	
“Lab-style” ventilation system (i.e. provides inward flow of air from areas of lower hazard to higher hazard, without recirculation to spaces outside of the laboratory)	X	X	Preferred	
Dedicated lab or room within lab	X	Required for new construction/renovation		
Eyewash Station	X	X	X	
Handwashing sink	X	X	X	X
Directly adjacent anteroom for PPE and personal belongings	X	Preferred		
Non-Porous surfaces, floors and furniture	X	X	X	X
Non-Operable Windows and/or fitted with screens	X	X		
Self-Closing, self-locking doors	X	X	Preferred	
Lockable Door	X	X	X	X
Card Access Entry	X	Preferred	Preferred	