

Activities and Controls

Phase	Activity/Practice/Procedure	Potential Hazard(s)	Current Control Type	Current Control	Recom. Control Type	Recommended Control	BSL	Special Considerations	Source of Control Recommendation	Chapter/ Page #	Change Needed?	Change to be Made
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References for "Source of Control Recommendation"

Source of Control Recommendation	Reference	Where the Reference Can Be Found
APHL Checklist	APHL A Biosafety Checklist: Developing A Culture of Biosafety (April 2015)	http://www.aphl.org/AboutAPHL/publications/Documents/ID_BiosafetyChecklist_42015.pdf
APHL EVD	APHL Template for Public Health Laboratory Risk Assessment for Ebola Virus Disease (EVD) Testing	http://www.aphl.org/aphlprograms/preparedness-and-response/documents/aphl-template.pdf
BMBL-5	HHS/CDC/NIH Biosafety in Microbiological and Biomedical Laboratories 5th Edition	http://www.cdc.gov/biosafety/publications/bmb15/
CDC Ebola	CDC Assessment Tool for Ebola Treatment Centers and Assessment Hospitals 5-18-2015 (v17)	See http://sos.ri.gov/documents/publicinfo/omdocs/minutes/1293/2015/41778.pdf for an example of where this can be found and its intended audience.
MMWR Safe Work	Centers for Disease Control and Prevention MMWR (Morbidity and Mortality Report) Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories	http://www.cdc.gov/mmwr/pdf/other/su6101.pdf
Sandia Risk	Sandia Report SAND2010-6487 Biosafety Risk Assessment Methodology (Susan Caskey et al., printed October 2010)	http://biosecurity.sandia.gov/BioRAM/Biosafety%20Risk%20Assessment%20Report.pdf

Definitions

Term	Definition
1) Specimen receipt	<p>Includes:</p> <ul style="list-style-type: none"> • Specimen transportation or shipment to laboratory (via package shipment, courier, pneumatic tube, or hand delivery) • Specimen (or specimen package) receipt in laboratory • Transfer of specimen (or specimen package) to testing area
2) Specimen handling	<p>Includes:</p> <ul style="list-style-type: none"> • Opening specimen package or secondary container • Specimen accessioning and preparation prior to testing, including: <ul style="list-style-type: none"> • Specimen container handling during accessioning (scanning into a computer, recording on a log, etc.) • Specimen container labeling • Paperwork handling • Transportation of specimen between testing areas prior to the testing process
3) Testing process	<p>Includes:</p> <ul style="list-style-type: none"> • Specimen aliquoting • Specimen (or specimen product) manipulations via reagent or mechanical means • Loading specimen (or specimen product) onto instruments • Unloading specimen (or specimen product) from instruments • Using instruments or other equipment • Servicing or moving instruments or other equipment • Moving/transporting specimen (or specimen product) during the testing process • Observing specimen (or specimen product), such as when observing bacterial cultures or using a microscope to look for cytopathic effect • Disinfection or decontamination that occurs during the course of testing (such as after using BSCs or instruments) • Cell culture/culture on nutrient plates of viruses or bacteria
4) Specimen storage	Moving a specimen (or specimen product) into or out of storage (such as refrigerators, freezers, or incubators)
5) Specimen disposal	Removing a specimen (or specimen product) from the laboratory, eventually or immediately into the medical waste stream

6) Waste handling	<p>Handling and disposing of waste generated:</p> <ul style="list-style-type: none"> • During specimen receipt • During specimen handling • During the testing process • During specimen storage • During specimen disposal • As a result of disinfection or decontamination activities
7) Specimen shipment from lab	Packaging and shipping a specimen from the laboratory being assessed to another laboratory (reference laboratory, state public health laboratory, CDC, etc.)
A/WP	Administrative and Work Practice Control
BSC	Biological Safety Cabinet
BSL-1	Biosafety Level 1
BSL-2	Biosafety Level 2
BSL-3	Biosafety Level 3
BSL-4	Biosafety Level 4
Eng	Engineering Control
N/A	Not Applicable
PPE	Personal Protective Equipment Control
Specimen	The clinical specimen collected from a patient or deceased individual
Specimen product	<p>A product derived from a specimen such as:</p> <ul style="list-style-type: none"> • Extracted RNA • Extracted DNA • Specimen modified by a reagent • Products grown from a specimen, such as colonies of bacteria in culture or cells infected with virus

Dropdown Key

Phase	Control Type	Description	BSL	Description	Change Needed
1) Specimen receipt	Abbreviation		Abbreviation		Yes
2) Specimen handling	A/WP	Administrative and Work Practice	1	Biosafety Level 1	No
3) Testing process	Eng	Engineering	2	Biosafety Level 2	
4) Specimen storage	PPE	Personal Protective Equipment	3	Biosafety Level 3	
5) Specimen disposal			4	Biosafety Level 4	
6) Waste handling			N/A	Not Applicable	
7) Specimen shipment from lab					



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