

Appendix B:

Identify Hazards		Identify Controls	Risk Assessment			Control Plan
List Specific Task	Potential Hazard	Current Controls, Engineering, Administrative, PPE	Likelihood	Consequence	Risk Level	Recommended Controls
Pre-Analytical						
Package receipt and opening packages	-Leaky specimen -Exposure to bloodborne pathogens	-Open leaky package in a BSC -Decontaminate BSC and equipment after use and after a spill -Wear appropriate PPE	Unlikely	Minor	Low	-Refresher training for lab personnel for spill cleanup outside and inside a BSC.
Preparation of specimens for testing	-Exposure to bloodborne pathogens -Exposure via direct contact of specimens, specimen containers, and contaminated surfaces -Splash/Splatter	-Manipulation of specimens in a BSC -Wear appropriate PPE	Likely	Minor	Medium	-Refresher training and competency assessment for safely using a BSC
Analytical						
Mechanical pipetting and use of serological pipettes	-Inhalation of infectious aerosols -Exposure to bloodborne pathogens -Expel last drop from pipette -Exposure via direct contact of specimens, specimen containers, and contaminated surfaces	-Manipulation of specimens in a BSC -Use tips with barrier filters -Dispose of tips in a rigid container -Disinfect mechanical pipettes after use or spill -Wear appropriate PPE	Possible	Minor	Medium	-Re-train personnel to carefully eject tips - Train personnel to remove sharps container after 2/3 full - Re-train personnel to not expel last drop from tip
Transport of specimens between testing areas	-Specimen container breaks -Specimen leaks into transport container -Container is dropped and specimen contents spill	-Transport specimens in a secondary container -Decontaminate all surfaces of the transport container prior to reuse	Rare	Minor	Low	-Transport on a cart between long distances

Vortexing and centrifuging	<ul style="list-style-type: none"> -Inhalation of infectious aerosols -Exposure to bloodborne pathogens -Exposure through ingestion or mucous membranes -Spills and splashes onto skin or mucous membranes -Exposure via direct contact of specimens with employee's skin -Exposure via direct contact of specimens, specimen containers, and contaminated surfaces 	<ul style="list-style-type: none"> -O-rings on centrifuge buckets -Use safety cups -Wear appropriate PPE -Disinfect equipment after use or spill 	Possible	Moderate	High	<ul style="list-style-type: none"> -Vortex inside a BSC -Train personnel to wait for centrifuge to stop before opening -Train personnel to allow aerosols to settle before opening equipment -Competency training to ensure equipment is not allowed to exceed design parameters
Post-Analytical						
Specimen transport to storage	<ul style="list-style-type: none"> -Accidental transfer of contaminated material from the BSC -Leaky specimens 	<ul style="list-style-type: none"> -Wipe all tubes with disinfectant -Specimens are placed in a leak proof container and decontaminated outside of container before removing from BSC -Place specimens in a durable, leak proof container and secure for transport 	Unlikely	Minor	Low	<ul style="list-style-type: none"> -Check tubes for cracks before storage
Waste autoclaving	<ul style="list-style-type: none"> -Exposure via direct contact of specimens, specimen containers, and contaminated surfaces -Leak or spill -Manipulating hot liquids 	<ul style="list-style-type: none"> -Disinfect outside of waste containers before removal from BSC (prior to disinfecting BSC) -Autoclave in an autoclave safe pan to contain materials during the autoclave run. -Wear autoclave mittens, lab coat, and eye protection 	Possible	Minor	Medium	

*Additional rows may be added