




Enhanced BSL-1 Precautions for Animal Specimens with Unknown Risk

Hazards	Potential Hazards	<ul style="list-style-type: none"> • Examples include animal blood, tissue, serum, etc. Does not include live animals. • Potential for many types of bloodborne pathogens, including but not limited to, Brucella spp., Leptospira spp., Hepatitis, and other bacterial and viral infections. • In genetically-modified animals, tissue may have tumorigenic properties. • Routes of exposure: percutaneous (non-intact skin, injections, punctures, lacerations) or mucous membrane (eyes, nose, mouth) contact. • If exposed, acute or chronic illnesses could occur, i.e. chronic Hepatitis, Brucellosis, etc.
Hazard Controls	Medical Screening	<ul style="list-style-type: none"> • None Required
	Transport	<ul style="list-style-type: none"> • Use a sealed, leak-proof container to transport materials.
	Work Practices	<ul style="list-style-type: none"> • Wash hands immediately after removing gloves and before leaving the work area. • No mouth pipetting. No eating, drinking or applying cosmetics (including lip balm) in the work area. • Use safe sharps practices (ex., safer sharps, no recapping, immediate disposal). • If centrifuging, refer to Centrifugation Safety (linked here).
	Personal Protective Equipment (PPE)	<ul style="list-style-type: none"> • Lab coat (or gown/tyvek, etc.) and gloves required. Mucous membrane protection (e.g. safety glasses with a face mask or full-face shield) must be used if there's a potential for splash or spray such as when working with tubing, valves, connection points, or liquids under pressure. • Remove PPE prior to leaving the lab area. Wash hands. 
Other	Cleaning & Disinfection	<ul style="list-style-type: none"> • Use an EPA-registered disinfectant. Refer to the label for dilution and contact time.
	Waste	<ul style="list-style-type: none"> • See Duke's Medical Waste Management policy for general guidance: https://www.safety.duke.edu/sites/default/files/VII_3MedWaste.pdf • Liquid waste: Treat with 1:10 household bleach (at least 0.5% sodium hypochlorite) for 20 minutes (or appropriate disinfectant) before being carefully poured down the drain (while wearing full face protection), followed by a copious amount of water. • Solid waste: Contain material in a leak-proof bag and transport it in a secondary container to dispose in the buildings outside trash dumpster. • Sharps: Activate safety device (if available) and place sharps immediately in puncture resistant sharps container (needle box); close when container is two-thirds filled or sooner. DO NOT attempt to jam needles into a full container. Follow solid disposal guidelines.
	Spills	<ul style="list-style-type: none"> • Wear full PPE, including a lab coat, disposable gloves, and full face protection. • Pick up sharp items with mechanical device and place into sharps container. • Cover spill with paper towel or other absorbent materials. • Decontaminate area with 1:10 dilution of bleach: water (at least 0.5% sodium hypochlorite) or an appropriate disinfectant. • Pour disinfectant on spill, first around the outer edges and circling in. Let sit for 20 minutes. • Place all disposable material into a leak-proof bag and dispose as solid waste, see above. • Repeat disinfection of area following the above steps. • Refer to the <i>Emergency Response Guide</i> posted in your work area for more information.
	Exposures	<ul style="list-style-type: none"> • Remove contaminated clothing. • Wash skin exposures with soap and water for 1 minute. For eye exposures, flood eyes with water from eyewash station or sink. • Obtain medical attention, if necessary. • Report to Employee Occupational Health and Wellness (EOHW) by dialing the BBF Hotline at 919-684-8115 or 115 from a Duke Phone. • Complete the "Report a Work-Related Accident, Injury, or Illness" form found at https://hr.duke.edu/wellness/workers-compensation
	Training	<ul style="list-style-type: none"> • Complete minimum safety training requirements for your job. • All personnel shall read and fully adhere to this document.
Questions	<ul style="list-style-type: none"> • Contact OESO - Biological Safety Division at 919-684-8822 or biosafety@duke.edu 	