

**LSU Inter-Institutional Biological and
Recombinant DNA Safety Committee (IBRDSC)**

**Policy: SPILL/EXPOSURE for Recombinant DNA (rDNA) and
Biohazardous Materials**

Adopted April 26, 2012

**DUE TO FEDERAL REPORTING REQUIREMENTS ALL SPILLS INVOLVING rDNA MUST BE
REPORTED TO ENVIRONMENTAL HEALTH AND SAFETY WHETHER AN EXPOSURE HAS
OCCURRED OR NOT.**

Office of Environmental Health & Safety (EHS)
Administrative Support Building
Corner of South Stadium Drive and Engineering Lane
Phone: 225-578-5640 OR

Sarah Keeton, PhD
Biological Safety Manager
Phone: 225-578-4658
sorlik1@lsu.edu

For Spills involving <250 mL of agents at 2 containment

SPILL IN BIOLOGICAL SAFETY CABINET

1. Lower sash and wait 5 minutes to allow BSC to contain aerosols.
2. Put on a lab coat, gloves, and face shield (if not already wearing).
3. Place paper towels over spill.
4. Slowly pour a freshly prepared 10% bleach solution on the paper towels and let sit for at least 30 minutes.
5. Dispose of paper towels in biohazardous waste container.
6. Repeat steps 3-5.
7. Disinfect all surfaces of the Biosafety Cabinet with a freshly prepared, 10% bleach solution and let sit for at least 30 minutes.
8. Wipe all surfaces of the Biological Safety Cabinet with 70% ethanol to reduce corrosion.
9. Allow Biological Safety Cabinet to run for at least 10 minutes before resuming work or turning it off.

10. Dispose of paper towels and PPE in biohazardous waste container.

SPILL IN LABORATORY OUTSIDE OF BIOLOGICAL SAFETY CABINET OR IN TRANSPORT

1. Notify Principal Investigator and others in the area that a spill has occurred.
2. Remove contaminated clothing and place in a biohazard bag if applicable for decontamination.
3. Wash any area of your skin that has contacted spilled material with soap and water for at least 5 minutes. If exposed to eyes, flush in eyewash station for at least 15 minutes.
4. Leave area for 30 minutes to let aerosols settle.
5. Put on lab coat, gloves and face shield (if not already wearing).
6. Use forceps to remove any visibly contaminated items that can be autoclaved and reused and place in autoclave bag.
7. Place paper towels over spill.
8. Slowly pour a freshly prepared 10% bleach solution on the paper towels and let sit for at least 30 minutes.
9. Dispose of paper towels in biohazardous waste container.
10. Repeat steps 6-8.
11. Disinfect all other contaminated surfaces with a freshly prepared, 10% bleach solution and let sit for at least 30 minutes.
12. Dispose of paper towels and PPE in biohazardous waste container.

SPILL INSIDE A CENTRIFUGE

1. Clear area of all personnel.
2. Wait 30 minutes for aerosol to settle before attempting to cleanup spill.
3. If a spill is identified after the centrifuge lid is opened, carefully close the lid, evacuate the area and close the laboratory door. Remain out of the area for at least 30 minutes. Notify personnel of spill and not to enter.
4. Wear a laboratory coat, safety glasses and gloves during cleanup.
5. Remove rotors and buckets to nearest BSC for cleanup.
6. Thoroughly disinfect inside of centrifuge.
7. Discard contaminated disposable materials using appropriate biohazardous waste disposal procedures.

BIOLOGICAL SPILL ON A PERSON

If a biological material is spilled on a person, emergency response is based on the hazard of the biological agent spilled, the amount of material spilled, and whether significant aerosols were generated. If aerosol formation is believed to have been associated with the spill, a contaminated person shall leave the contaminated area immediately. Contaminated clothing should be removed and placed in red or orange biohazard bags for disinfecting. Contaminated skin should be flushed with water and thoroughly washed with a disinfectant soap. Showering may be appropriate, depending on the extent of the spill.

For Spills Involving >250 mL of BSL-2

Notify Environmental Health and Safety at 225-578-5640 for assistance and documentation.