

BIOLOGICAL SPILL KIT CHECK LIST

- Disposable Gowns (water-proof that close in the back)
- Gloves (double if necessary)
- Disposable shoe covers (optional)
- N-95 respirator (medical clearance & fit-testing required by Occupational Safety)*
- Eye goggles or full face shield that fits over N-95 respirator
- Effective disinfectant agent (i.e. 10% bleach made fresh daily, Clidox, 2% Amphyl, etc)
- Absorbent paper towels, may also include diking material or spill pillows for large spills
- Small disposable broom with dustpan, tongs or forceps for sharps
- Biohazard waste bags
- Sharps container
- A waterproof copy of (SOP) spill response and cleanup procedures

* Personal protection equipment (PPE) - items required for potential respiratory agents such as adenoviral vectors

SPILL RESPONSE AND CLEAN-UP STANDARD OPERATING PROCEDURES (OUTSIDE BIOSAFETY CABINET)

Have a complete biological spill kit ready to go before you start the clean-up. Initiate clean-up as soon as possible

RESPONSE

- DO NOT PANIC
- Alert people in the immediate area of spill
- Remove contaminated clothing and leave area (evacuate)
- Close the area, post a “DO NOT ENTER” sign, and allow agents to settle (~30 minutes)
- Identify any agent’s specific issues
- Assess the degree of contamination and formulate a plan for the action required
- Assemble a spill response and cleanup team

SPILL CLEAN-UP ROUTINE PROCEDURES

- Before re-entering the room to proceed with clean-up: don gowns, gloves, shoe covers, full covered face shield, N-95 if applicable (PPE from spill kit).
- Starting at the edges and working toward the center of the spill, cover the spill with paper towels or other absorbent material.
- Carefully pour disinfectant over the absorbent material and spill starting around the edges and working toward the center. Saturate the area with the disinfectant.

- Allow sufficient contact time for the disinfectant to inactivate all material in the spill; non-viscous spills, 15-20 minutes, viscous spill, 30 minutes disinfection.
- Use paper towels to wipe up spill, working from the edges to the center.
- Use tongs/forceps to pick up sharp objects (broken glass, etc.) that may puncture gloves.
- Discard absorbent material in biohazard waste bag as you clean-up the spill.
- Clean the spill area with fresh paper towels soaked in disinfectant. Thoroughly wet the spill area and allow to disinfect for approximately 15-20 minutes.
- Discard cleanup materials in biohazard bag, along with any contaminated PPE.
- Close and secure bag, then place bag in second biohazard bag. Secure outer bag and disinfect by autoclaving (steam sterilization).

Notes: Spills and accidents which result in overt exposures to organisms containing recombinant DNA molecules are immediately reported to the Institutional Biosafety Committee (IBC). Reports shall be sent to the Institutional Biosafety Office (IBO), 910 Madison Ave., Suite 650, Memphis, TN 38163, Tel. 901-448-2871 or faxed to 901-448-3738. Medical evaluation, surveillance, and treatment are provided as appropriate, and written records are maintained.

SPILL RESPONSE AND CLEAN-UP PROCEDURES (INSIDE BIOSAFETY CABINET) (Excerpts from CDC)

Have a complete biological spill kit ready to go before you start the clean-up. Initiate clean-up as soon as possible. Allow cabinet to operate during clean-up.

RESPONSE

- “DO NOT PANIC”
- Alert people in the immediate area of spill
- Remove contaminated clothing
- Identify any agent’s specific issues

SPILL CLEAN-UP ROUTINE PROCEDURES

- Use tongs/forceps to pick up sharp objects (broken glass, etc.) that may puncture gloves.
- Starting at the edges and working toward the center of the spill, cover the spill with paper towels or other absorbent material.
- Carefully pour disinfectant over the absorbent material and spill starting around the edges and working toward the center. Saturate the area with the disinfectant.
- Allow sufficient contact time: non-viscous spills, 15-20 minutes; viscous spill, 30 minutes.
- Wipe up spill with paper towels, working from edge to center.
- Clean the spill area with fresh paper towels soaked in disinfectant. Wipe down all reachable cabinet surfaces with disinfectant.
- If cabinet has a catch basin, flood the basin with disinfectant.
- Place disposable contaminated materials into red biohazard bag and autoclave before discarding as regulated medical waste.
- Place contaminated reusable items in biohazard bags or heat resistant pans or containers with lids before autoclaving and further clean-up.
- Expose non-autoclavable materials to disinfectant, 20 minutes contact time, before removing them from the BSC.

- Remove protective clothing used during clean-up and place in biohazard bag for autoclaving.
- The cabinet should be run 15 minutes after clean-up before resuming work or turning off the cabinet.
- Inform all users of the BSC as well as the laboratory supervisor/principal investigator about the spill and successful clean-up as soon as possible.

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