

COMPARATIVE MEDICINE
LABORATORY ANIMAL FACILITIES

STANDARD OPERATING PROCEDURE

for

SAFETY PRECAUTIONS FOR USING DMBA (9,10-DIMETHYL-1,2-
BENZANTHRACENE)

- 1.0 PURPOSE: This SOP applies to all Researcher staff and LAF employees working with this chemical
- 2.0 SCOPE: This SOP outlines the Occupational Health and Safety Guidelines when working with DMBA. DMBA is a chemical that causes cancer and heritable genetic damage. DMBA is used to induce animal models of cancer. Contact with eyes, skin and clothing should be avoided. Inhalation of dust must be prevented. Procedures handling DMBA chemical must be conducted under a fume hood. Aerosolization or excretion in the feces/urine, blood or other surfaces of animals injected DMBA is minimal and poses little risk.
- 3.0 PROCEDURE:
 - 3.0 Personnel must enroll in the Occupational Health Medical Program at UB.
 - 3.1 All animal work associated with this chemical, will be conducted in the BSL2 facility
 - 3.2 Standard entry, gowning, and personal hygiene procedures of BSL2 will be followed
 - 3.3 NIOSH N95 face masks and gloves must be worn
 - 3.4 Safety glasses will be worn in the animal holding room and when cage changing as an additional precaution.
 - 3.5 Animals can be housed in standard open top cages.
 - 3.6 Cage changing does not require a BSC.
 - 3.7 Contaminated material and carcasses are to be incinerated.
 - 3.8 Animal bites do not pose any increased risk. As per standard policy, report to supervisor and veterinary staff.
 - 3.9 Spill and accident procedures:
 - A. Don Nitrile gloves prior to handling acetone.
 - B. Small Spills:
 - 3.9.B.1 Do not attempt clean-up if you feel unsure of your ability to do so or if you perceive the risk to be greater than normal laboratory operations. Absorb incidental spills with absorbent pads. Collect and submit for waste disposal by LAF personnel.
 - C. Large Spills:
 - 3.9.C.1 Notify others in area. Evacuate room/immediate area. If splashed on an individual or in eyes flush for 15 minutes with copious quantities of water.
 - D. If a spill occurs, remove all sources of ignition. Dampen the solid spill of material with acetone and transfer the material to a

labeled "Hazardous Waste" container. Use absorbent paper dampened with acetone to pick-up remaining material. Seal contaminated clothing and absorbent paper in a vapor tight plastic bag for hazardous waste disposal.

3.10 Decontamination Procedure:

- A. Don Nitrile gloves
- B. Solvent wash all contaminated surfaces with acetone followed by washing with soap and water solution. Do not re-enter the contaminated area if large spill occurs.