



Date: 25/05/2021

SOP # 012 for (3-methylcholanthrene) (3MCA)

**Standard Operating Procedure (SOP) for using
3-methylcholanthrene (3MCA) in Animal model**

3MCA is a polycyclic aromatic hydrocarbon that is used as an experimental cancer research chemical.

1. 3-MCA May cause cancer.
2. 3-MCA may be fatal by inhalation or ingestion and may cause strong irritation of the skin, eyes, mucous membranes, and upper respiratory tract.
3. Routes of entry are through inhalation and ingestion.
4. Ecologically, 3-MCA May cause long lasting harmful effects to aquatic life.
5. DSS in its active form is not secreted in animal urine or feces; however, small amounts will drip from the sipper bottles and will be absorbed by cage bedding.
6. 3-MCA should be prepared and handled using safety procedures as outlined below.
 - When weighing and preparing 3-MCA, laboratory workers should read first the SDS and use goggles, lab coat nitrile gloves and P3 respirators.
 - The compound should be prepared in a fume hood or biological safety cabinet while wearing appropriate PPE.
 - Filter-topped cages or ventilated cage racks must be used to house animals being given 3-MCA in drinking water.
7. Rooms housing animals being given 3-MCA should be clearly identified on the outside of the room
8. A hazardous sign should be posted on cages
9. Anyone handling potentially contaminated cages or bedding should wear chemically-resistant gloves, disposable gown and shoe covers.
10. Opening cages, handling animals or handling bedding must be done using procedures that minimize aerosolization either in a biological safety cabinet, a chemical fume hood, or while wearing an N-95 or P3 respirator.



11. Bedding should be changed in a biological safety cabinet or a specially designed animal bedding disposal cabinet.
12. Bedding from cages housing 3-MCA -treated mice should be emptied at a HEPA-filtered dump station and collected for biomedical waste disposal via incineration.
13. Animal carcasses should be placed into biohazard waste bags and marked for incineration.
14. Dispose all waste material in the appropriate chemical waste container.
15. 3-MCA should be signed and disposed of as a hazardous chemical.

I hereby confirm that I have read the SOP (Standard Operating Procedure) for Working with 3-MCA in Animals and agree to follow these procedures.

Name: _____

Title: _____

Signature: _____

Date: _____