

Use of Bleomycin

Purpose:

To provide guidance for the use of Bleomycin in the laboratory and animal facility environment. Bleomycin is a chemotherapeutic antibiotic used for the study of pulmonary fibrosis.

Precautions:

The following information can be used to complete the Safety section of your animal protocol.

1. Chemical hazard agents – (Identify the category of the chemical): (*Select the following*)
 - Carcinogen
 - Mutagen
 - Reproductive Hazard/Teratogen
2. Containment preparation – (Containment equipment required for the preparation of the chemical): (*Select one of the following*)
 - Fume Hood

OR

 - Ducted Biosafety Cabinet (BSC)
3. Containment animals – (Containment equipment required for chemical administration and handling animals after exposure to the chemical): (*Select the following*)
 - No special containment needed.

NOTE: For Rodents: Microisolators or other containment type housing is recommended
4. PPE needed - (for handling live animals, carcasses or animal waste/dirty bedding): (*Select the following*)
 - Exam gloves – nitrile
 - Exam gloves – latex
 - Safety glasses/goggles
 - Lab coat or disposable gown
5. Waste Disposal: (disposal of animal waste/dirty bedding from animals after exposure to the chemical) (*Select both options and include additional information for Other*)
 - Bag animal waste/dirty bedding and place sealed bag in secondary container and place secondary container in regular trash.

- Other: Chemical Hazard Cage Labels are required on each individual cage containing the hazard and must contain the chemical health hazard symbol and “Agent and Disposal method”. Labels are removed or crossed out when the special handling time has ended. *Chemical Hazard Cage Labels are available at www.ehs.wisc.edu/ehs-signage.
- 6. Carcass disposal: (Select the following)
 - Pick up by EH&S for incineration.
- 7. Chemical human risk: (Add the following)
May cause genetic defects. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

References:

“Bleomycin”, Josiah P. Brandt and Valerie Gerriets.
<https://www.ncbi.nlm.nih.gov/books/NBK555895/>