WVU IACUC - APPROVED SOP:
Bryostatin Use in Animals

Purpose

The purpose of this standard operating procedure (SOP) is to detail the handling, mixing, storage, transportation, documentation, and disposal of bryostatin when associated with work with animals.

Procedure

Bryostatin 1 solutions will be mixed in the laboratory in a fume hood, and the Researcher mixing the Bryostatin 1 will wear a lab coat, standard nitrile gloves and safety glasses or goggles whenever mixing the drug or handling the container. Inhalation of the powder form of Bryostatin 1 will be avoided, as dilution will take place in a fume hood. Stock solutions may be made using polyethylene glycol, ethyl alcohol and polysorbate (any other diluents used must be approved by the HSC Environmental Health and Safety Office at 293-3968) and kept in the laboratory, and only working solutions will be transported to the Vivarium in a secondary container with a snap close lid. Any excess bryostatin-1 pure product, contaminated gloves, paper towels, or any other materials used to clean up a spill will be collected and disposed of as non-hazardous waste in the regular trash. Leftover stock solutions containing ethanol must be disposed of as hazardous waste.

Bryostatin 1-treated animal cages MUST BE LABELED WITH A MANILLA CARD STATING THE DATE OF INJECTION AND COMPOUND. The cages will be cleaned in the standard way (e.g., they do not need to be autoclaved). However, they will be washed IN THE CAGE WASHER TWICE by OLAR personnel as Bryostatin 1 will be excreted in urine and feces by the treated animals. In addition, the bedding will be collected and disposed of as non-hazardous waste. When changing cages, OLAR personnel will wear two pairs of gloves, a lab coat/coveralls, a bouffant, and an N-95 or greater respirator mask. The PPE will be disposed of as non-hazardous waste in the regular trash.