

**University of Notre Dame
Institutional Animal Care and Use Committee
Policy for Handling BRDU**

BRDU is a common synonym for the chemical compound 5-Bromo-2'-Deoxyuridine. BRUN is a white powder that must be stored in a deep freeze (below-20°C). All BRDU used in Freimann Life Science Center/Raclin-Carmichael Hall animal facilities must have been prepared outside the animal facilities. No BRDU powder or solution will be stored in either animal facility. BRDU targets the immune system. Proper PPE must be worn when using the chemical. Personnel using BRDU will wear nitrile gloves when handling.

1. Wear a smock or lab coat to protect arms and body. If BRDU contacts clothing, remove and wash skin immediately. Skin contact causes erythema and edema with crusting and scaling of the area. Avoid skin or eye contact with BRDU.
2. A recapping device **MUST** be used with any syringes and needles for injection of animals or transfer of solution.
3. BRDU solution vials/tubes **MUST** be opened and all syringes **MUST** be loaded in the fume hood to avoid inhalation of aerosols.
4. All needles and syringes will be disposed as an intact unit - **DO NOT** disconnect the needles from the syringes. This is to avoid the creation of aerosols.
5. All counters and tables will be cleaned completely. Nitrile gloves must be worn during cleaning –up.
6. Wash hands thoroughly after handling.
7. Launder all contaminated clothing before reuse.
8. Any remaining solution must be removed from the animal facilities. Do not discard any hazardous materials in the sinks or drains.
9. Animals injected with BRDU may be discarded in the carcass freezer. Autoclaving is not necessary.
10. All containers with BRDU must be clearly labeled.