

Auburn University
Laboratory Radioactive Waste Collection Guidelines

| | | Waste Type | | |
|---|---|--|---|---|
| | | Solid | Liquid | Full Liquid Scintillation Vials |
| I S O T O P E T Y P E | Long-Lived <i>Half-life >120 days</i> (C-14, Ca-45, Cd-109, Cl-36, Fe-55, H-3, Mn-54, Na-22, Pb-210) | <ul style="list-style-type: none"> Segregate burnable waste (paper, thin plastic, gloves) from nonburnable (source vials and outer containers, glass) | <p style="text-align: center;"><u>All Isotope Types:</u></p> <ul style="list-style-type: none"> Includes radioactive material itself <i>plus first rinse</i> of containers holding RM | <p style="text-align: center;"><u>All Isotope Types:</u></p> <ul style="list-style-type: none"> Preferred: Pour fluid into liquid container and empty vial into solids (nonburnable) |
| | Short-Lived <i>Half-life 15-120 days</i> (Cr-51, Fe-59, I-125, P-33, Rb-86, S-35, Sr-85) | <ul style="list-style-type: none"> Remove or deface any "Radioactive Material" markings and trefoil radiation symbol Comingle all solid waste in one container | <ul style="list-style-type: none"> Must be readily soluble/dispersible in water Segregate by isotope | <ul style="list-style-type: none"> Alternate: Collect full vials in a solid waste drum separate from other waste Segregate by isotope |
| | Very Short-Lived <i>Half-life < 15 days</i> (Bi-210, I-131, Nb-94, P-32, Sc-47, Tc-99m) | <ul style="list-style-type: none"> Remove or deface any "Radioactive Material" markings and trefoil radiation symbol Comingle all solid waste in one container | <ul style="list-style-type: none"> Only biodegradable scintillation fluid unless prior approval granted by RSC Containers should be stored in secondary containment to control leaks/spills | |

Prohibited Items (*Contact Radiation Safety prior to generating waste to make special arrangements*):

- Hazardous materials including lead & mercury
- Biohazard bags or other hazardous materials markings
- Sharps including needles & razor blades
- Animal waste including excreta, carcasses, tissue

Contact Radiation Safety at 4-6238 or radsaft@auburn.edu to arrange for pickup