

**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 &gt;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"> <li>Segregate burnable waste (paper, thin plastic, gloves) from nonburnable (source vials and outer containers, glass)</li> </ul>	<p style="text-align: center;"><u>All Isotope Types:</u></p> <ul style="list-style-type: none"> <li>Includes radioactive material itself <i>plus first rinse</i> of containers holding RM</li> </ul>	<p style="text-align: center;"><u>All Isotope Types:</u></p> <ul style="list-style-type: none"> <li>Preferred: Pour fluid into liquid container and empty vial into solids (nonburnable)</li> </ul>
	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"> <li>Remove or deface any "Radioactive Material" markings and trefoil radiation symbol</li> <li>Comingle all solid waste in one container</li> </ul>	<ul style="list-style-type: none"> <li>Must be readily soluble/dispersible in water</li> <li>Segregate by isotope</li> </ul>	<ul style="list-style-type: none"> <li>Alternate: Collect full vials in a solid waste drum separate from other waste</li> <li>Segregate by isotope</li> </ul>
	Very Short-Lived  <i>Half-life &lt; 15 days</i> (Bi-210, I-131, Nb-94, P-32, Sc-47, Tc-99m)	<ul style="list-style-type: none"> <li>Remove or deface any "Radioactive Material" markings and trefoil radiation symbol</li> <li>Comingle all solid waste in one container</li> </ul>	<ul style="list-style-type: none"> <li>Only biodegradable scintillation fluid unless prior approval granted by RSC</li> <li>Containers should be stored in secondary containment to control leaks/spills</li> </ul>	

**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](mailto:radsaft@auburn.edu) to arrange for pickup*