Working Safely

125_T

Radiation Safety

(216) 368-2906

Iodine 125 Quick Facts

Principal emission: 0.035 MeV gamma

Half Life: 60.14 days

Shielding: 3mm thick lead

Body badge: required

Ring badge: required if using > 1mCi

Bioassay: required when using >1.0 mCi



Safety Precautions:

- Always wear gloves and a lab coat when working with any radioisotope.
- Due to ¹²⁵I affinity for the thyroid gland it is an internal exposure hazard. Obtain a thyroid scan before and after performing an iodination. The second scan needs to be completed within 24 hours after the iodination.
- Use a survey meter with a sodium iodide probe to detect ¹²⁵I. Count wipes in a Liquid Scintillation Counter or in the Gamma Counter to detect removable contamination.
- Waste generated from ¹²⁵ I should be shielded with 3 mm lead shielding.
- Waste generated from ¹²⁵I should be stored in a covered acrylic waste container. Separate solid, liquids, and vial waste.