## Working Safely with S

Radiation Safety (216) 368-2906

## Sulphur –35 Quick Facts

**Low Energy Beta Emitter** 

Half Life: 87.4 days

Body badge is not required Ring badge is not required

## **Safety Precautions:**

- Always wear gloves and a lab coat when working with any radioisotope.
- Survey meter with GM probe have a low efficiency for <sup>35</sup>S, usually 4-8%. A pancake probe may be sensitive if used within a 1/2 inch of the surface.
- <sup>35</sup>S may be difficult to distinguish from <sup>14</sup>C. If both nuclides are being used in the same laboratory, establish controls to ensure they are kept separate.
- Wipe tests should be taken and counted in a Liquid Scintillation Counter for greatest sensitivity when detecting removable surface contamination.
- Waste generated from <sup>35</sup> S should be stored in a covered acrylic waste container. Separate solid, liquids, and vial waste.
- <sup>35</sup>S labelled compounds in common use are often released as a radioactive contaminant to the air. Charcoal Filter traps should be used to reduce contamination from release of <sup>35</sup>S<sup>2</sup>O.

