Working Safely with

33**P**

Radiation Safety

(216) 368-2906

Phosphorus 33 Quick Facts

Principal emission: 0.249 MeV beta

Half Life: 25.4 days

Shielding: 1 cm acrylic

Body badge: required Ring badge: required when using >0.5 mCi

Safety Precautions:

- Always wear gloves and a lab coat when working with any radioisotope.
- Work should be carried out behind 1 cm thick acrylic shielding
- ³³P is easily detected by a survey meter. Check your hands often for contamination when working with ³³P and immediately dispose of contaminated gloves. Survey your work area, floor, equipment and yourself for contamination after every experiment.
- Work with ³³P in a well-ventilated area to avoid inhaling any airborne particles.
- Waste generated from ³³P should be stored in a covered acrylic waste container. Keep solid, liquids, and vial waste separately. Lead sheets can be added to the <u>exterior</u> of the waste container to block any secondary radiation.

