## 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
- <sup>33</sup>P is easily detected by a survey meter. Check your hands often for contamination when working with <sup>32</sup>P and immediately dispose of contaminated gloves. Survey your work area, floor, equipment and yourself for contamination after every experiment.
- Waste generated from <sup>33</sup>P should be stored in a covered acrylic waste container. Separate solid, liquids, and vial waste.
- Waste generated from <sup>32</sup>P should be stored in a covered acrylic waste container. Keep solid, liquids, and vial waste separately. Lead sheets can be added to the exterior of the waste container to block any secondary

