Working Safely with $^{33}$P

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

- $^{33}$P is easily detected by a survey meter. Check your hands often for contamination when working with $^{32}$P and immediately dispose of contaminated gloves. Survey your work area, floor, equipment and yourself for contamination after every experiment.

- Waste generated from $^{33}$P should be stored in a covered acrylic waste container. Separate solid, liquids, and vial waste.

- Waste generated from $^{32}$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