

Working Safely with ^{36}Cl

Radiation Safety

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Chlorine 36 Quick Facts

High Energy Beta Emitter

Half Life: 14.29 days

Shielding: 1 cm acrylic

Body badge required

Ring badge required when activity exceeds 0.5 mCi

Safety Precautions:

- Always wear gloves and a lab coat when working with any radioisotope.
- Body badges are required to be worn when using ^{36}Cl
- If quantities greater than 0.5 mCi are used at a time (including when aliquoting) then a ring badge should also be worn.
- 1 cm thick acrylic shielding is required
- ^{32}P is easily detected by Geiger counter. 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