

Working Safely with ^{36}Cl

Radiation Safety

(216) 368-2906

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.
- If quantities greater than 0.5 mCi are used at a time (including when aliquoting) then a ring badge should also be worn.
- Use shielding to minimize exposure. Shielding materials may include lead, concrete, or other dense materials.
- ^{36}Cl is easily detected by Geiger counter. Check your hands often for contamination when working with ^{36}Cl and immediately dispose of contaminated gloves. Survey your work area, floor, equipment and yourself for contamination after every use.
- Work with ^{36}Cl in a well-ventilated area to avoid inhaling any airborne particles.
- Minimize the amount of time you spend working with ^{36}Cl to reduce your overall exposure.