

## **STANDARD PROTOCOL REQUIREMENTS: CHROMIUM-51 (Cr-51)**

1. A whole body film badge will be worn by all individuals handling greater than 150,000 mCi-minutes/year of Cr-51; an extremity badge (ring badge) will be worn by individuals handling greater than 7900 mCi-minutes/year of Cr-51.
2. Tongs, forceps and other remote handling devices will be used when opening or otherwise manipulating source containers.
3. Waste containers, source vials, syringes, etc., with Cr-51 (up to 10 millicuries) should be shielded with 1/4 inch lead or equivalent; for such containers with 11 to 25 millicuries of Cr-51, 3/4 inch lead or equivalent is required.
4. Following work with protocol quantities, hands, arms, clothing, shoes, and work area (including the floor in the vicinity of the work area) will be monitored for contamination using a geiger counter. Any contaminated areas will be decontaminated immediately.
5. Radioactive waste will be picked up by the Radioactive Waste Service at least once each week that multiple millicuries of Cr-51 have been used.
6. For the purpose of radioactive waste segregation, Cr-51 is considered short-lived and should be disposed with other radionuclides which have half-lives of less than 100 days.
7. Any spill or personnel contamination resulting from protocol work will be reported to the Radiation Safety Branch as soon as possible.
8. Following a spill or personnel contamination incident associated with the protocol, call 496-4803 to schedule a whole body count for each individual involved.
9. All radioactive materials in use or storage, including waste, must be secured from unauthorized removal or access when unattended.

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