

Section 4.0 - Radioactive Materials

The use of radioactive materials (open and sealed sources) in Antarctica requires strict adherence to the Antarctic Conservation Act and the license conditions specified in your institution's U.S. Nuclear Regulatory Commission or state licensing authority's radioactive materials use license.

- Please identify the radioisotopes you plan to use in Antarctica.

Isotope	Other	Chemical Form or Sealed Source	Activity (mCi)	From Date	To Date
3-H		aqueous, organic compounds	50.	10/15/2002	04/01/2003
14-C		bicarbonate	100.	10/15/2002	04/01/2003

- Please identify the types of radioactive waste you expect to generate.

Type	Constituents / Cocktail	Isotope	Activity (mCi)	Amount	Unit of Measure
Dry Solids		3H, C14	10.	50	cubic feet
Liquid (water/seawater)		3H, C14	140.	50	Liters
Scintillation vials	biodegradable cocktail	3H, C14	1.	10000	vials