



Instructions for Catalog # 757QR

Strontium-89/90

Revision 122908

Description:

- This standard is packaged in a screw-top glass vial containing at least 10 mL of standard concentrate.
- The concentrate is preserved with nitric acid to $\text{pH} < 2$.
- The concentrate contains non-radioactive strontium (5 mg/L) and yttrium (25 mg/L).
- The standard should be stored at room temperature.
- The diluted standard will contain the following analytes in the activity ranges shown:

Strontium-89	10 – 70 pCi/L
Strontium-90	3 – 45 pCi/L

Before you begin:

- This standard is supplied as a concentrate and must be diluted prior to analysis.
- When diluting the concentrate, it is recommended that the diluting solution have an acidic composition comparable to that of the concentrate to ensure analyte stability.
- The standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Shake the vial well prior to opening.
2. Using clean, dry, class A volumetric glassware, transfer 5.0 mL of the concentrate and dilute the concentrate to a final volume of 1 L with 0.1 M nitric acid solution.
3. If necessary, prepare a second 1 L portion by following steps 1 and 2 above.
4. Mix or shake the diluted standard well prior to analysis.
5. Use your regular preparation and analytical procedures.
6. Decay correct analytical results to the reference date shown on the standard vial.
7. Report your result as pCi/L for the diluted sample.

Safety:

- This standard is preserved in a dilute nitric acid solution. The solution is corrosive and represents a health hazard if it comes in contact with eyes or skin.
- ERA radiochemistry standards present radiological hazards that vary depending on the particular isotope(s) present. Knowledge of hazards associated with isotopic composition is necessary to prevent laboratory contamination and limit personnel exposure.
- ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. If you require a Material Safety Data Sheet for any ERA product, please call toll free at 1-800-372-0122.