



## Instructions for Catalog # 803 Vegetation Radionuclides

Revision 021420

### Description:

- This standard is packaged in a 16-oz. polyethylene jar containing at least 500-cc of vegetation.
- This standard is not preserved.
- The standard should be stored at room temperature and with a tightly sealed lid.
- This standard may not contain all of the analytes listed on the Data Reporting Forms.
- The standard contains some or all of the following analytes in the activity ranges shown:

Americium-241.....	50 – 5,000 pCi/kg
Cesium-134.....	300 – 3,000 pCi/kg
Cesium-137.....	300 – 3,000 pCi/kg
Cobalt-60.....	300 – 3,000 pCi/kg
Curium-244.....	50 – 5,000 pCi/kg
Manganese-54.....	300 – 3,000 pCi/kg
Plutonium-238.....	50 – 5,000 pCi/kg
Plutonium-239.....	50 – 5,000 pCi/kg
Potassium-40.....	5,000 – 50,000 pCi/kg
Strontium-90.....	500 – 10,000 pCi/kg
Uranium-234.....	50 – 5,000 pCi/kg
Uranium-238.....	50 – 5,000 pCi/kg
Uranium (Nat).....	100 – 10,000 pCi/kg
Uranium (Nat) mass.....	150 – 15,000 µg/kg
Zinc-65.....	300 – 3,000 pCi/kg

### Before you begin:

- Although all ERA vegetation standards have been thoroughly blended prior to shipping, the standards should be homogenized prior to taking an aliquot for analysis due to settling which may occur during shipping.
- Report the results based on **as received** basis.
- Report your results in pCi/kg for all analytes except for mass determinations of uranium, which should be reported as µg/kg.

### Standard Preparation Instructions:

1. Open the Vegetation Radionuclides standard in a fume hood to avoid inhalation of dust.
2. Ensure standard homogeneity prior to removing aliquots for analysis.
3. Prepare and analyze the standard using your normal procedures.
4. Decay correct analytical results to the reference date shown on the standard container.

### Safety:

- 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. Safety Data Sheets (SDS) for all ERA products are available through our website [www.eraqc.com](http://www.eraqc.com).