



## Instructions for Catalog # 606 Air Filter Radionuclides

Revision 100411

### Description:

- This standard is packaged in 47-mm filter holder containing one 47-mm diameter glass fiber filter.
- This standard is not preserved.
- The filter should be stored at room temperature.
- This product is intended to be used as a quality control check of the entire analytical process for the analytes/matrix included in the standard.
- The dilution instructions below represent the minimum suggested sample size for this product. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown on the certificate of analysis.
- The standard contains some or all of the following analytes in the activity ranges shown:

Americium-241 .....	2 – 80 pCi/filter
Cesium-134.....	50 – 1,500 pCi/filter
Cesium-137.....	50 – 1,500 pCi/filter
Cobalt-60 .....	50 – 1,500 pCi/filter
Iron-55 .....	50 – 1,500 pCi/filter
Manganese-54.....	50 – 1,500 pCi/filter
Plutonium-238 .....	2 – 80 pCi/filter
Plutonium-239 .....	2 – 80 pCi/filter
Strontium-90.....	5 – 200 pCi/filter
Uranium-234.....	2 – 80 pCi/filter
Uranium-238.....	2 – 80 pCi/filter
Uranium (Nat).....	4 – 160 pCi/filter
Uranium (Nat) mass.....	6 – 240 µg/filter
Zinc-65.....	50 – 1,500 pCi/filter

### Helpful Hints:

This standard is supplied as a spiked filter. The entire filter must be used during preparation and analysis to determine analyte concentrations.

### Standard Preparation Instructions:

1. Transfer the entire filter to the preparation vessel.
2. Use your regular preparation and analytical procedures.
3. Decay correct analytical results to the reference date shown on the standard holder.

### 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. If you require a Material Safety Data Sheet for any ERA product, please call toll free at 1-800-372-0122.