



## Instructions for Catalog # 752

RadChem™ Tritium™

Revision 090119

### Radioactive Material:

- Contents are exempt from NRC or Agreement State licensing requirements.
- Radioactive Material – Not for Human Use – Introduction into Foods, Beverages, Cosmetics, Drugs or Medicinals, or Into Products Manufactured for Commercial Distribution is Prohibited – Exempt Quantities Should Not Be Combined.

### Description:

- The standard is packaged in a poly bottle containing at least 250 mL of standard.
- The standard is not preserved.
- A blank is provided for blank correction of results.
- The standard 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.
- ERA suggests that when subsampling this product prior to analysis you use a minimum sample size of at least 10 mL. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown on the certificate of analysis.
- The certified values apply to the sample after following the stated instructions.
- The diluted standard will contain the following analytes in the activity ranges shown:

Tritium .....1,000– 24,000 pCi/L

### Helpful Hints:

The standard is supplied as a whole volume standard requiring no dilution prior to analysis.

### Standard Preparation Instructions:

1. Shake the standard well prior to opening.
2. Use your regular preparation and analytical procedures.
3. 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).

## **Additional Information for Radioactive Materials:**

### **Handling Radioactive Material**

- Basic radiation principles of time, distance, and shielding should be practiced to minimize radiation exposure (i.e., minimizing the time spent around radioactive material, as well as maximizing the distance and the shielding between persons and the radioactive material).
- Use of radioactive material should be restricted to authorized, responsible persons in authorized areas.
- Activities such as eating, drinking, smoking, or the application of cosmetics should be prohibited in areas of use.
- Gloves and laboratory coats should be worn when working with liquid radioactive material.

### **Use of Radioactive Material**

- Exempt quantity products containing radioactive material should be used only in accordance with these instructions.

### **Storage of Radioactive Material**

- All radioactive materials should be securely stored when not in use.

### **Disposal of Radioactive Material**

- Radioactive materials in exempt quantities can be disposed of in regular waste without regard to their radioactive content (unless the person is specifically licensed).
- Liquid materials disposed in laboratory sinks should be flushed with copious amounts of water.
- Specific licensees (such as laboratory/academic institutions) receiving exempt quantities are subject to the requirements of 10 CFR Part 20, in particular, waste disposal requirements.