

# Certificate of Compliance for Radioactive Materials Packages IAEA Specifications SSR-6 (2018) for Type A Packaging and D.O.T. Specifications 7A, Type A

Certification Number: CC24002, Rev. 1.0

Part Number: SH-SYS-VIAL-30ML

## 1. PACKAGE IDENTIFICATION

Part Number: SH-SYS-VIAL-30ML

Description: Eichrom 10-30 mL Vial Shipping System, Includes Case and 30mL Vial Pig, 70 lb

## 2. PREAMBLE

- a. This certificate is issued to satisfy section 635 including sections 607 through 621 and 635 through 651 of IAEA No. SSR-6 (Rev 1) Regulations for the Safe Transport of Radioactive Material, 2018 edition.
- b. This certificate is issued to satisfy section 178.350 including sections 171.2, 173.403, 173.410, 173.411, 173.412, 173.415, 173.431, 173.461 through 173.466, 178.608 and Subpart K of Part 178 of the DOT Hazardous Materials Regulations (49CFR).
- c. The packaging and contents described in Item 4 below were found to meet the safety standards set forth in, and tested, according to the more stringent recommendations for general performance testing from:
  - IAEA Regulations for the Safe Transport of Radioactive Material, 2018 edition, as listed above;
  - IATA Dangerous Goods Regulations, 64<sup>th</sup> Edition Sections 5.0.4.3, 10.5, 10.6.0 thru 10.6.3.5;
  - 49 CFR as listed in item 2b above
- d. This certificate does not relieve the consignor from compliance with any requirement of the regulations of the applicable regulatory agencies, including the government of any country through or into which the package will be transported.
- e. This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation.

**3. DESCRIPTIONS OF PACKAGING:**

- a. Outer Container: Linear Low Density Polyethylene shell with crosslinked polyethylene foam cushioning and zinc-plated steel hardware
- b. Shielded Insert: Lead casting with one hole for Vial Shield. Lead thickness varies from 0.74 inches to 1.00 inches. Stainless steel sleeves in holes. Stainless steel cover plates on top
- c. Vial Shield: Lead fully encased by stainless steel with rubber washer (see next item). Lead Thickness: 1.88 on top, 0.81 inches on sides and bottom. Eichrom part number SH-VIAL-30ML
- d. Rubber Washer: minimum thickness: 1.2 mm, but must be thick enough to prevent leakage; 41.3 mm diameter cutout, fits in vial shield without interfering with screw threads.
- e. Vial: Glass 10mL, 20mL, or 30mL vial with cap
- f. Overall dimensions: 8.5 inches X 10 inches wide X 12.25 inches tall
- g. Overall weight: 70 lb

**4. AUTHORIZED CONTENTS**

- a. Normal Form Radioactive Materials in Type A Quantities
- b. Tested with  $^{18}\text{F}$ , 2027 mCi in appropriate parts of the shield as Yellow II
- c. Must comply with A2 value limits from IAEA 430 or 49 CFR 173.435

**5. OTHER CONDITIONS, AND REFERENCES:**

- a. Specifications and Restrictions
  - i. Ground or Air Transportation
  - ii. The package shall be shipped in a vertical orientation.

**6. THIS CERTIFICATE IS ISSUED ON THE BASIS OF THE TEST RESULTS AND SAFETY ANALYSIS OF THE PACKAGE DESIGN.****7. CERTIFICATION**

This document is to certify that to the best of our knowledge, information and belief, the construction methods, the packaging design, and the materials of construction for this specification package comply with the standards described in items 2a, 2b, 2c, 2d, and 2e herein. Any deviation from these conditions must be approved prior to use.

Approved:



Sarah McAlister  
Quality Manager  
Eichrom Technologies, LLC  
Date

4-June-2024