



U.S. Department  
of Transportation

Pipeline and  
Hazardous Materials  
Safety Administration

East Building, PHH-23  
1200 New Jersey Ave, SE  
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY  
SPECIAL FORM RADIOACTIVE MATERIALS

CERTIFICATE USA/0654/S-96, REVISION 3

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> for the transport of radioactive material.

1. Source Identification - Eckert & Ziegler Isotope Products Model Numbers 67-6505, 67-6510, 67-6515, 67-6520, 67-6525, 67-6530, 67-6535, and 67-6540.
2. Source Description - Cylindrical double encapsulations made of Type 304 stainless steel and fusion welded. Approximate outer dimensions are 3.05 mm (0.12 in.) in diameter and 20.0 mm (0.79 in.) in length. Minimum total wall thickness is 0.58 mm (0.02 in.). Construction shall be in accordance with attached Isotope Products Laboratories Drawing No. 3513 (DOT), Rev. C, Sheet 1 of 1.
3. Radioactive Contents - No more than 101.75 MBq (2.75 mCi) of Cesium-137 multiplied by the last two digits of a given model number. The Cs-137 is in the form of an oxide in ceramic.
4. Management System Activities - Records of Management System activities required by Paragraph 306 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.

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<sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

**CERTIFICATE USA/0654/S-96, REVISION 3**

5. Expiration Date - This certificate expires on June 30, 2023. Previous editions which have not reached their expiration date may continue to be used.

This certificate is issued in accordance with paragraph(s) 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the May 2, 2018 petition by Eckert & Ziegler Isotope Products, Valencia, CA, and in consideration of other information on file in this Office.

Certified By:



June 11, 2018  
\_\_\_\_\_  
(DATE)

*WJS*  
\_\_\_\_\_  
William Schoonover  
Associate Administrator for Hazardous  
Materials Safety

Revision 3 - Issued to extend the expiration date.

RING, COLOR CODED,  
6061 AL

SWAGE PLUG,  
304 SST

PLUG, OUTER  
304 SST  
 $\phi 0.060$  [ $\phi 1.52$ ]  
ACTIVE DIAMETER

PLUG (HOT),  
INNER, 304 SST  
ACTIVE  
ELEMENT  
Cs-137

CAPSULE,  
OUTER, 304 SST

CAPSULE,  
INNER, 304 SST

PLUG (COLD), INNER, 304 SST

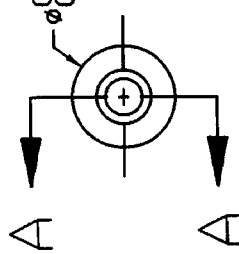
0.583 [14.8]  
ACTIVE LENGTH

0.795 [20.2]  
0.780 [19.8]

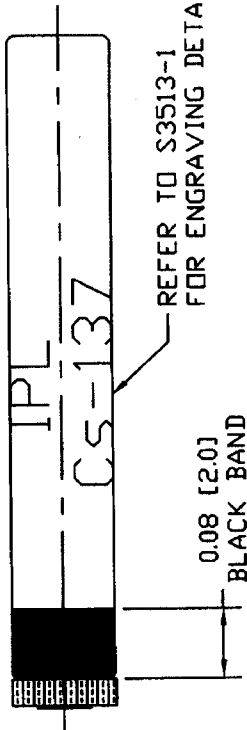
( $\phi 0.09$ ) [2.2]

( $\phi 0.751$ ) [19.07]

$\phi 0.123$  [ $\phi 3.12$ ]  
 $\phi 0.118$  [ $\phi 3.00$ ]



SECTION A-A



REFER TO S3513-1  
FOR ENGRAVING DETAIL

0.08 [2.0]  
BLACK BAND

3. CONTAINED ACTIVITY: SEE PRODUCT CODE FOR CERTIFIED DATE OF MANUFACTURE (D.O.M.)
  2. METRIC UNITS ARE IN [mm] MILLIMETERS.
  1. ASSEMBLE PER ENGINEERING DRAWING.
- NOTES: UNLESS OTHERWISE SPECIFIED

67-6500 SERIES BRACHYTHERAPY TUBE SOURCE

<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH-SIZES</p> <p>TOLERANCES (UNLESS OTHERWISE SPECIFIED)</p> <p>X.XXX ± .002 INCH</p> <p>X.XX ± .005 INCH</p> <p>X.X ± .03 INCH</p> <p>ANGULAR TOLERANCE OF 0°±30'</p> <p>FRACTIONAL DIMENSIONS ± 1/64</p> <p>ALL DIMENSIONS ARE FINISHED DIMENSIONS</p> <p>THIRD ANGLE PROJECTION</p>		<p>TITLE BRACHYTHERAPY TUBE SOURCE, 1.5 cm Cs-137</p> <p>DRAWN JJK</p> <p>ME/CHECKER EZ</p> <p>ENGR MD</p> <p>SCALE NONE</p> <p>SIZE A</p> <p>SERIES TITLE MEDICAL, HEG SOURCES</p>	<p>REV C</p> <p>SHEET 1 OF 1</p>
<p>Isotope Products Laboratories</p> <p>An Eckert &amp; Ziegler Company VALENCIA, CALIFORNIA 91355</p>			



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**CERTIFICATE NUMBER:** USA/0654/S-96

**ORIGINAL REGISTRANT(S) :**

Eckert & Ziegler Isotope Products  
24937 Avenue Tibbitts  
Valencia, CA, 91355  
USA