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Isotope Products

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RTIFICATE OF CALIBRATION RD SOURC

Radionuclide: Eu-152

Half-life: 4933 ± 11 days

Source No.: Catalog No.: 1513-63-3 GF-152-D

Customer:

Reference Date: P.O. No.: Contained Radioactivity:

CABRERA SERVICES, INC.

11-0222

1-Jun-11 12:00 PST

0.9704 μΩ 35.90 kBq

Physical Description:

Capsule type:

ш'n 0 Nature of active deposit: Backing: Active diameter/volume:

D (25.4 mm OD x 6.35 mm THK) Evaporated metallic salt

Epoxy 5 mm

Acrylic

Radioimpurities:

Cover:

Gd-153 = 0.209%; Eu-154 = 1.13% on 1-Jun-11

Method of Calibration:

This source was assayed using gamma ray spectrometry.

Branching ratio used: Peak energy used for integration:

0.266 gammas per decay

344.3 keV

Uncertainty of Measurement:

Type A (random) uncertainty:

Type B (systematic) uncertainty:

Total uncertainty at the 99% confidence level: Uncertainty in aliquot weighing:

> 0.0 3.0 0.6 888

3.7

Notes:

See reverse side for leak test(s) performed on this source.

Materials (as in NRC Regulatory Guide 4.15) for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference EZIP participates in a NIST measurement assurance program to establish and maintain implicit traceability

Nuclear data was taken from IAEA-TECDOC-619, 1991

This source has a working life of 5 years.

EZIP Ref. No.: 1513-63