



Eckert & Ziegler

Isotope Products

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

NOMINAL SOURCE CERTIFICATE

Customer: Eckert & Ziegler Isotope Products GmbH

Purchase Order No.: 38597

Model No.: Not applicable

Catalog No.: CF230360005U

Capsule Type: A3036-2

Active Diameter/Mass: 3.2 mm (0.125 ")

Cover: Stainless steel

Backing: Stainless steel

Certificate Date: 01-Jul-10

Quantity: 1

SS&DR No.: Not applicable

ISO Classification: Not applicable

Special Form No.: Not applicable

Nuclide Half Life: 2.645 ± 0.008 years

Recommended Working Life: 15 years

Nuclide	Source No.	Activity	Radiation Output	Reference Date
Cf-252	H2-164	5 µCi/185 kBq	Not applicable	1-Aug-10

Impurities: See Technical Data sheet.

Leak Test Information is on Reverse Side:

Remarks: - This document uses the numerical convention where 1.000 = 1 and 1,000 = 10³.
- Nuclear data was taken from "Table of Radioactive Isotopes", edited by Virginia Shirley, 1986.

Matthew Day
Name Signature Date 6/5/10

Notebook Page: 1412-100

ISO 9001 CERTIFIED

Medical Imaging Laboratory

24937 Avenue Tibbitts Valencia, California 91355

Industrial Gauging Laboratory

1800 North Keystone Street Burbank, California 91504



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Cf-252 Technical data

The Cf-252 used to prepare your order was taken from
Eckert & Ziegler Isotope Products Laboratories Lot #5128001
and it had the following composition as of 15 Mar 10.

<u>Nuclide</u>	<u>Mass %</u>	<u>Activity %</u>
Cf-249	9.936	0.1495
Cf-250	30.643	12.266
Cf-251	15.053	0.0877
Cf-252	44.368	87.497

The Cm-248 decay product was last separated on 3 Apr 01

Isotopic composition provided by Oak Ridge National Laboratory

If you have any questions, please contact Eckert & Ziegler
Isotope Products Technical Service: 661-309-1010

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PTB calibration	18167	291	15-Mar-11
	n/s	error	

Date	T-T0 (d)	250Cf	252Cf	sum (n/s)
3-Apr-01	-3633	604	240954	241558
12-Jun-10	-276	371	21708	22079
15-Mar-10	-365	376	23138	23514
15-Mar-11	0	357	17810	18167
1-Dec-14	1357	293	6732	7025
15-Dec-15	1736	277	5130	5407
15-Jun-16	1919	270	4499	4769
8-Jan-18	2491	248	2986	3234