



9-5

Corrected

BRACHYSCIENCES

Date: 9/4/09

To: **Betsy Allrich**

Phone:

NRC

Fax: 610 337 5269

From: **Wayne Richardson**

Subject: **License Amendment
06-30764-01**

of 2
Pages:

03036099

Dear Betsy

Attached is the information requested for our Co-57 Source used for daily calibration of our Dose Calibrators

We only utilize one source but typically decay here when no longer useable

Request a maximum total activity of 15 mCi

Request a miximum individual source activity of 7 mCi.

Regards,

Wayne Richardson
Radiation Safety Officer
Director of Quality, Regulatory Affairs

(wayne@wwmedtech.com)
203 262 4190 X105

**Eckert & Ziegler**

Isotope Products

Medical Imaging Laboratory24937 Avenue Tibbitts Valencia, California 91355
Tel 661-309-1010 Fax 661-257-8303**Industrial Gauging and Medical Imaging Laboratory**1800 North Keystone Street Burbank, California 91504
Tel 661-309-1010 Fax 661-257-8303**NIST TRACEABLE CERTIFICATE
GAMMA STANDARD SOURCE****RADIONUCLIDE:** ~~Co-56~~**HALF LIFE:** 271.79 ± 0.09 days**CATALOG No:** RV-057-5M**SOURCE No:** 1377-55-10**REFERENCE DATE:** 1 Aug 09, 12:00 PST**CONTAINED RADIOACTIVITY:** 5.183 mCi**CONTAINED RADIOACTIVITY:** 191.8 MBq**SOURCE DESCRIPTION:****CAPSULE TYPE:**

RV (27 ml polyethylene bottle)

NATURE OF ACTIVE DEPOSIT:

Co-57 dispersed in an epoxy matrix

ACTIVE DIAMETER/VOLUME:

Approx. 20 ml

BACKING:

Plastic

COVER:

Plastic

RADIOIMPURITIES:

Co-56 = 0.0562%; Co-58 = 0.0113% on 1 Aug 09.

METHOD OF CALIBRATION:

This source was assayed in a pressurized well-type ionization chamber.

UNCERTAINTY OF MEASUREMENT:**TYPE B (SYSTEMATIC) UNCERTAINTY:**

± 3.0%

TYPE A (RANDOM) UNCERTAINTY:

± 0.0%

UNCERTAINTY IN ALIQUOT WEIGHING:

± 0.0%

TOTAL UNCERTAINTY AT THE 99% CONFIDENCE LEVEL: ± 3.0%**NOTES:**

1. See reverse for leak tests performed on this source.
2. IPL participates in an NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Material (As in NRC Regulatory Guide 4.15).
3. Nuclear data was taken from IAEA-TECDOC-619, 1991.
4. This source has a working life of 18 months.

LAB BOOK-PAGE: 1377-55

Daniel James Van Dellen ~~XXXXXXXXXX~~
SIGNATURE | DATE

ISO 13485 CERTIFIED

Authorized Representative

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