CERTIFICATE OF CALIBRATION

MODEL CAL2600 GAMMA STANDARD

Radionuclide:

Co-60

Activity:

3.994 kBq (108.0 nCi)

Serial Number:

124838

Reference Date:

1200 PDT June 1, 2008

Half Life⁽¹⁾:

5.271 ± 0.001 years

PRINCIPAL EMISSIONS(1)

Type

Energy (keV)

Intensity (%)

gamma gamma 1173.237 1332.501 99.90 99.9824

SOURCE DESCRIPTION

Active Diameter:

1 mm

Backing:

1 mm plastic

Overall Diameter:

25.4 mm

Cover:

1 mm plastic

Thickness:

3.2 mm

METHOD OF CALIBRATION

The source was calibrated on a high purity germanium detector using a Co-60 efficiency at 1173.237 keV. This efficiency was established and verified through ongoing intercomparisons with the National Institute of Standards and Technology. This standard is indirectly (implicitly) traceable to the National Institute of Standards and Technology.

North American Scientific, Inc. participates in the Radioactivity Measurements Assurance Program conducted by the National Institute of Standards and Technology in cooperation with the Nuclear Energy Institute.

TOTAL UNCERTAINTY (99% Confidence Level)

Systematic uncertainty

Random uncertainty

Total uncertainty (quadratic sum)

3.00%

0.93%

± 3.14%

Seved Miri

Calibration Laboratory Manager

May 27, 2008

Date

REFERENCES

(1) Table of Radioactive Isotopes, 7th edition, 1986.

•LEAK TEST CERTIFICATION ON REVERSE•

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