

CERTIFICATE OF CALIBRATION
Standard Radionuclide Source

79104-28

I-125 5 mL Liquid in Flame Sealed Vial

Customer: LLNS/LLNL/For the U.S. DOE/NNSA
P. O. No.: B581679, Item 1

This standard radionuclide source was prepared gravimetrically from a calibrated master solution. The master solution was calibrated by liquid scintillation counting.

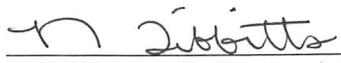
Radionuclide purity and calibration were checked by liquid scintillation counting and germanium gamma-ray spectrometry. The nuclear decay rate and assay date for this source are given below.

ANALYTICS maintains traceability to the National Institute of Standards and Technology through Measurements Assurance Programs as described in USNRC Reg. Guide 4.15, Revision 1.

Isotope:	I-125
Activity (Bq):	8.601 E5
Half-Life:	59.40 days
Calibration Date:	February 25, 2009 12:00 EST
Relative Expanded Uncertainty (k=2):	3.5%

Comments:

Impurities: γ -impurities <0.1%
5.02814 grams 0.01M NaOH + 0.006M Na₂SO₃ solution with approximately 30 μ g/g I carrier.

Source Prepared By: 
N. E. Tibbitts, Radiochemist

QA Approved: 
D. M. Montgomery, QA Manager

Date: 3-2-09

End of Certificate