Certified Reference Material

Certificate of Traceability

U.S. Department of Energy
Radiological and Environmental Sciences Laboratory
1955 Fremont Avenue, MS 2112
Idaho Falls, Idaho 83415
(208) 526-8031

CRM ID: MAPEP 15-XaW32

This Certified Reference Material (CRM) contains a known quantity of analyte(s) in a stable and homogeneous matrix. This material is intended for the verification of the accuracy and precision of analytical measurements. The reference value listed for each analyte is mathematically derived from a certified value traceable to a national or international standard. The traceability of the CRM is maintained through an unbroken chain of comparisons, all having stated uncertainties, calculated according to ISO and NIST Guidelines.

This CRM was prepared and the reference value(s) were verified by the Radiological and Environmental Sciences Laboratory (RESL). RESL maintains direct traceability to the United States National Institute of Standards and Technology (NIST) through successful participation in the NIST/RESL Radiological Traceability Program. RESL is accredited to ISO 17043 (2377.02) as a Performance Testing Provider, ISO 17025 (2377.01) as a Chemical Testing Laboratory, and ISO G34 (2377.03) as a Reference Material Producer by The American Association for Laboratory Accreditation.

David S. Sill
Senior Technical Manager - Chemistry

ISO/IEC GUIDE 34:2009
ACCREDITED
REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 2377.03

RESL CRM
Certified Reference Material

USDOE-RESL CRM ATTACHMENT

CRM ID: MAPEP 15-XaW32 Matrix: Water

Reference Date: 2/1/2015

Radionuclide	Reference Value*
I-129	4.02 +/- 0.06 E1 pCi/L

*Uncertainties are reported at coverage factor of k=1.

Special Instructions for the Proper Use of the CRM

This CRM water was prepared from natural groundwater, preserved with 0.004M NaOH and .0006M Na2S2O3 x (5)H2O, 10mg/L Iodide carrier has been added. This CRM must be shaken prior to subdividing for analysis. Minimum sample size for use depends on the accuracy and precision of the analytical method used.

Storage and Handling of CRM

This CRM should be maintained in its original packaging until use. This CRM should be stored and used at normal laboratory operating temperatures. This CRM should be stable under normal laboratory conditions until the date listed in the Expiration Date. If the validity of the CRM becomes questionable or technical assistance is needed please contact RESL.

Verification of Certified Reference Activity

The analyte(s) in this CRM have been verified by high resolution gamma spectrometry against an independent source(s) which are traceable to the National Institute of Standards and Technology.

Hazards

The below link takes you to the MSDS for this material. Please select I-129 Analyte Water.
http://www.inl.gov/resl/mapep/describe.html

Preparation Date: 1/25/2015
Certificate Issue Date: 8/18/2015
Expiration Date: 1/25/2022

END OF CERTIFICATE