



SCOPE OF ACCREDITATION TO ISO 17034:2016

U.S. DEPARTMENT OF ENERGY  
RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY  
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REFERENCE MATERIAL PRODUCER

Valid To: September 30, 2024

Certificate Number: 2377.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this Reference Material Producer<sup>1</sup> for the production of the following certified reference materials and reference materials:

Certified Reference Material/ Matrix or Artifact	Property Value(s)/ Property Identity/ Range/ Uncertainty	Approach Used to Assign Property Values
<u>Inorganic Reference Materials –</u> Cements, Clays and Related Products <u>Organic Reference Materials –</u> Foodstuffs <u>Environmental Reference Materials –</u> Soils and Sludges Waters Plant Materials Marine	Reference Materials Containing Trace Metals and <sup>238</sup> U, <sup>236</sup> U, <sup>235</sup> U, <sup>Total</sup> U, <sup>99</sup> Tc, <sup>129</sup> I, <sup>239</sup> Pu, <sup>240</sup> Pu, <sup>237</sup> Np  Range: ≤ 500 mg/kg  Uncertainty: ≤ ± 5% @ k=1	CRM-TB-1 CRM-TP-1

Certified Reference Material/ Matrix or Artifact	Property Value(s)/ Property Identity/ Range/ Uncertainty	Approach Used to Assign Property Values
<u>Reference Materials for Radioactivity –</u>  Radiation Dosimetry and Natural Matrix Materials  Synthetic/Natural Urine Synthetic/Natural Feces Synthetic Lungs Bottle Absorption Manikins Thyroids Nasal Swabs Foodstuffs Sludge Cements, Clays, and Related Products Soil Water Vegetation Air Filters	Reference Materials Containing Radionuclides with Half-Lives Greater than 7 Days  Range: $\leq 10$ nCi/g  Uncertainty: $\leq \pm 5\%$ @ k=1	CRM-TB-1 CRM-TP-1
<u>Reference Materials for Radioactivity –</u>  Radiation Dosimetry Gamma X-ray Beta Neutron	Reference Materials of Personnel Dosimeters Irradiated with NIST Traceable Sealed Sources or Radiation Generating Devices (RGD)  Range: 0.05 rem to 500 rad  Uncertainty: $\leq \pm 10\%$ @ k=1 for Neutron dose and $\leq \pm 5\%$ @ k=1 for all other sources	CRM-TB-1 CRM-TP-1

<sup>1</sup> This reference material producer is approved to produce Certified Reference Materials (CRM) for all items listed on the scope of accreditation.



# Accredited Reference Material Producer

A2LA has accredited

## U.S. DEPARTMENT OF ENERGY RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY *Idaho Falls, ID*

This accreditation covers the specific materials listed on the agreed upon Scope of Accreditation. This producer meets the requirements of ISO 17034:2016 *General Requirements for the Competence of Reference Material Producers*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 28<sup>th</sup> day of April 2023.

A blue ink signature of a person, likely the Vice President of Accreditation Services, written over a horizontal line.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2377.03  
Valid to September 30, 2024  
Revised June 19, 2024

*For reference materials to which this accreditation applies, please refer to the reference material producer's Scope of Accreditation.*