



THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

ACCREDITED REFERENCE MATERIAL PRODUCER

A2LA has accredited

INORGANIC VENTURES, INC.

Christiansburg, VA

for technical competence as a

Reference Material Producer

This accreditation covers the specific materials listed on the agreed upon scope of accreditation. This producer meets the requirements of ISO Guide 34:2000 *General Requirements for the Competence of Reference Material Producers*, in combination with the relevant requirements of ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*.



Presented this 28th day of July 2008.

President

For the Accreditation Council

Certificate Number 0883.02

Valid to July 31, 2010

REVISED February 18, 2009

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

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 34:2000

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REFERENCE MATERIALS PRODUCER

Valid To: July 31, 2010

Certificate Number: 0883.02

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

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
Certified Reference Materials			
Category A2.6 Trace Metals Standard	Aluminum (Al) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 60,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Antimony (Sb) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 10 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Arsenic (As) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Barium (Ba) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 11-QC-006	ICP-OES ICP-MS Gravimetric Sulfate
	Beryllium (Be) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Bismuth (Bi) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Boron (B) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 100 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Cadmium (Cd) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Calcium (Ca) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 1 µg/L – 50,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Cerium (Ce) 10, 100, 1000, and 10,000 µg /mL stock CRMs	EPA Method 200.7-Modified; EPA Method	ICP-OES ICP-MS

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	200.8-Modified; 10-QC-006	EDTA titrimetry
	Cesium (Cs) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 50,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.8-Modified; 11-QC-006; EPA Method 300.0	ICP-MS Gravimetric Sulfate IC
	Chromium (Cr) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Hexavalent Chromium (Cr+6) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 100 µg/L – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; EPA Method 330.4	ICP-OES ICP-MS Redox titrimetry
	Cobalt (Co) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Copper (Cu) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 100,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Dysprosium (Dy) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Erbium (Er) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Europium (Eu) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Gadolinium (Gd) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Gallium (Ga) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Germanium (Ge) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Gold (Au) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Hafnium (Hf) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003		
	Holmium (Ho) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Indium (In) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Iron (Fe) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Lanthanum (La) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Lead (Pb) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Lithium (Li) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 11-QC-006	ICP-OES ICP-MS Gravimetric Sulfate
	Lutetium (Lu)	EPA Method	ICP-OES

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-MS EDTA titrimetry
	Magnesium (Mg) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Manganese (Mn) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Mercury (Hg) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Molybdenum (Mo) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Neodymium (Nd) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Nickel (Ni) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element –	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Range 2 µg/L – 50,000 µg /mL Best relative uncertainty 0.003		
	Niobium (Nb) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Palladium (Pd) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Phosphorus (P) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 70,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 15-QC-002	ICP-OES ICP-MS Acid/Base titrimetry
	Platinum (Pt) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 500 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Potassium (K) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 11-QC-006	ICP-OES ICP-MS Gravimetric Sulfate
	Praseodymium (Pr) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Rhenium (Re) 10, 100, 1000, and 10,000 µg /mL	EPA Method 200.7-Modified;	ICP-OES

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.8-Modified	ICP-MS
	Rhodium (Rh) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Rubidium (Rb) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; EPA Method 200.8-Modified; 11-QC-006	IC ICP-MS Gravimetric Sulfate
	Samarium (Sm) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Scandium (Sc) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Selenium (Se) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Silicon (Si) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Best relative uncertainty 0.003		
	Silver (Ag) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 16-QC-005	ICP-OES ICP-MS Volhard titrimetry
	Sodium (Na) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 50,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 11-QC-002	ICP-OES ICP-MS Gravimetric Sulfate
	Strontium (Sr) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Sulfur (S) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 100,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; Std. Methods 2320B(15-QC- 002)	ICP-OES ICP-MS Acid/Base titrimetry
	Tantalum (Ta) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Tellurium (Te) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Terbium (Tb) 10, 100, 1000, and 10,000 µg /mL stock CRMs	EPA Method 200.7-Modified; EPA Method	ICP-OES ICP-MS

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	200.8-Modified; 10-QC-005	EDTA titrimetry
	Thallium (Tl) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 100 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Thorium (Th) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Thulium (Tm) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Tin (Sn) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Titanium (Ti) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Tungsten (W) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Uranium(U) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 25,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
	Vanadium (V) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Ytterbium (Yb) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Yttrium (Y) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 20,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Zinc (Zn) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 40,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified; 10-QC-005	ICP-OES ICP-MS EDTA titrimetry
	Zirconium (Zr) 10, 100, 1000, and 10,000 µg /mL stock CRMs Custom and Stock Blends Containing this element – Range 2 µg/L – 10,000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7-Modified; EPA Method 200.8-Modified	ICP-OES ICP-MS
Category A9.2 Ion Chromatography and Ion Selective Electrode Calibrants	3-methoxypropylamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical –	EPA Method 300.0-Modified	IC

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003		
	Acetate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Ammonium 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; 16-QC-0052	IC Volhard titrimetric
	Ammonium as Nitrogen 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; 16-QC-005	IC Volhard titrimetric
	Benzoate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Bromate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; 16-QC-005	IC Volhard titrimetric
	Bromide 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; 16-QC-005	IC Volhard titrimetric
	Chlorate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; EPA Method 200.7	IC ICP-OES
	Chloride 1000 µg /mL stock CRM and	EPA Method 300.0-Modified;	IC

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	16-QC-005	Volhard titrimetric
	Chlorite 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified; 27-QC-001	IC Iodometric titrimetric
	Chromate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 330.4-Modified; EPA Method 200.7	Redox titrimetric ICP-OES
	Citrate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Dichloroacetate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	DiEthanolamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	DiMethylamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Fluoride 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Formate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Glycolate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Iodide 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	16-QC-005	Volhard titrimetric
	Lactate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Malate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Maleate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Methanesulfonate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	MonoEthanolamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical –	EPA Method 300.0-Modified	IC

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003		
	MonoMethylamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Nitrate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Nitrate as N 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Nitrilotriacetate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Nitrite 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Nitrite as N 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Oxalate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Perchlorate 1000 µg /mL stock CRM and	EPA Method 300.0-Modified;	IC

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 200.7	ICP-OES
	Phosphate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Phosphate as P 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Phthalate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Propionate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Succinate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Sulfate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	Tartrate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
	Thiocyanate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	16-QC-005	Volhard titrimetric
	Thiosulfate 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	Std. Methods 4500-Cl B-Modified	Iodometric titrimetric
	TriEthanolamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	TriEthylamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	TriMethylamine 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
	TetraMethylammonium 1000 µg /mL stock CRM and Custom and Stock Blends Containing this chemical – Range 0.1 – 1000 µg /mL Best relative uncertainty 0.003	EPA Method 300.0-Modified	IC
Category A5.3 Waters	Filterable, Non-Filterable, and Total Solids Total Solids Range 70-5200 mg/L Non-filterable Solids 20-200 mg/L Dissolved Solids 50-5000 mg/L Best relative uncertainty 0.005	EPA Method 160.1, 160.2, 160.3-Modified	Gravimetric
	Oil and Grease in Water Range 8-150 mg/L Best relative uncertainty 0.005	EPA Method 413.1-Modified	Gravimetric
Category A9.1	pH 4 Standard	EPA Method	Potentiometry

Category and Sub-category of Reference Material	Concentration Ranges and Best Relative Uncertainty	Test, Analysis and Measurement Methods	Measurement Technique(s)
pH Standards	Range 3.9-4.1 Best relative uncertainty 0.003	150.1	
	pH 7 Standard Range 6.9-7.1 Best relative uncertainty 0.003	EPA Method 150.1	Potentiometry
	pH 10 Standard Range 9.9-10.1 Best relative uncertainty 0.003	EPA Method 150.1	Potentiometry
	Custom pH Standards Range 1-14 Best relative uncertainty 0.003	EPA Method 150.1	Potentiometry
Category A9.3 Conductivity Standards	10 µmhos/cm Conductivity Standard Range 9.9-10.1 µmhos/cm Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical
	100 µmhos/cm Conductivity Standard Range 9.9-10.1 µmhos/cm Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical
	1000 µmhos/cm Conductivity Standard Range 99.9-100.1 µmhos/cm Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical
	10,000 µmhos/cm Conductivity Standard Range 9.9-10.1 µmhos/cm Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical
	100,000 µmhos/cm Conductivity Standard Range 9.9-10.1 µmhos/cm Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical
	1400 µmhos/cm Conductivity Standard Range 9.9-10.1 Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical
	Custom Conductivity Standard Range 0.3-100,000 µmhos/cm Best relative uncertainty 0.003	EPA Method 120.1	Electrochemical