



SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 34:2009

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REFERENCE MATERIAL PRODUCER

Valid To: January 31, 2017

Certificate Number: 2495.01

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 of the following categories:

Category and sub-category of Reference Material¹	Concentration Ranges and Uncertainty	Measurement Technique(s)
Category: A2.6 & A4.3: <u>Inorganic Reference Materials:</u> Stock Single Standards, Stock Multi Standards, Custom Single Standards, Custom Multi Standards, Speciation Standards	<u>Trace Metal Standards:</u> <u>Concentration Range:</u> (0.0001 to 100 000) µg/ml (0.0001 to 100 000) µg/g <u>Uncertainty:</u> 0.1 % to 10.0 % <u>Cations Standards:</u> <u>Concentration Range:</u> (0.0001 to 100 000) µg/ml (0.0001 to 100 000) µg/g <u>Uncertainty:</u> 0.1 % to 10.0 % <u>Stoichiometry standards:</u> <u>Concentration Range:</u> 0.1 M to 10 M <u>Uncertainty:</u> 0.1 % to 5.0 %	ICP-OES ICP-MS Titrimetry Gravimetric Ion Chromatography LC-ICP/MS
Category: : A2.6 & A 4.3 <u>Inorganic Reference Materials:</u> Stock Single Standards, Stock Multi Standards, Custom Single Standards, Custom Multi Standards	<u>Anions:</u> <u>Concentration Range:</u> (0.002 to 100 000) µg/ml (0.002 to 100 000) µg/g <u>Uncertainty:</u> 0.1 % to 10.0 %	Ion Chromatography Gravimetric Titrimetry

Category and sub-category of Reference Material ¹	Concentration Ranges and Uncertainty	Measurement Technique(s)
Category: A9.1 : <u>pH Standards</u>	<u>pH Buffers:</u> <u>Concentration Range:</u> 0 to 14 S.U. <u>Uncertainty:</u> 0.01 S.U. to 0.2 S.U.	Potentiometry
Category: A9.2 : <u>Ion Selective Electrode Standards</u>	<u>Cyanide Standards:</u> <u>Concentration Range:</u> (0.1 to 20 000) µg/ml (0.1 to 20 000) µg/g <u>Uncertainty:</u> 0.1 % to 10.0%	Ion Selective Electrode Titrimetry
Category: A9.3 : <u>Conductivity Standards</u>	<u>Conductivity:</u> <u>Concentration Range:</u> > 2 µmhos/cm <u>Uncertainty:</u> 0.1 % to 5.0%	Electrochemical
Category: A9.4 : <u>Buffer Systems</u>	<u>Buffer Solutions:</u> <u>Concentration Range:</u> >0.1 M <u>Uncertainty:</u> 0.1 % to 5.0%	Gravimetric Titrimetry Ion Selective Electrode
Category: A3.1 & A4.3: <u>Organic Reference Materials:</u> Stock Single Compound Standards, Stock Multi-Compound Standards, Custom Single Compound Standards, Custom Multi-Compound Standards	<u>Chromatography Standards:</u> Alkanes Alkenes Acetates Alcohols Aldehydes Anilines Amides Amines Aromatics Carbamates Ethers Esters Pesticides Herbicides Anhydrides <u>Concentration Range:</u> (0.001 to 1 000 000) µg/ml (0.001 to 1 000 000) µg/g <u>Uncertainty:</u> 0.6 % to 10.0 %	GC/MS GCFID Gravimetric LC/UV LC/RI LC/MS

Category and sub-category of Reference Material ¹	Concentration Ranges and Uncertainty	Measurement Technique(s)
<p>Category: A3.1 & A4.3 (cont): <u>Organic Reference Materials:</u> Stock Single Compound Standards, Stock Multi-Compound Standards, Custom Single Compound Standards, Custom Multi-Compound Standards</p>	<p><u>Chromatography Standards:</u> Haloethers Ketones Cyanates Nitriles Nitroaromatics Oxides Phenols Phthalates Pyridines Sugars Organic Acids OrganoMetalics Explosives Epoxides Alkynes Herbicide Esters Sulfides Ketones Thiols Carbonyls Silicates Anisoles Silanes Organosulfates Glycerides Bio-Diesel Amino Acids Pharmaceuticals Lubricants Halogenated Ethers Dyes Halogenated Alkanes Halogenated Alkenes Halogenated Aromatics Halogenated Organic Acids High Boiling Point Fuels Low Boiling Point Fuels Carbonyl-DNPH-Derivatives PAH's (Polyaromatic Hydrocarbons) PCB's (Polychlorinated Biphenyls) <u>Concentration Range:</u> (0.001 to 1 000 000) µg/ml (0.001 to 1 000 000) µg/g <u>Uncertainty:</u> 0.6 % to 10.0 %</p>	<p>GC/MS GCFID Gravimetric LC/UV LC/RI LC/MS</p>

Category and sub-category of Reference Material ¹	Concentration Ranges and Uncertainty	Measurement Technique(s)
Category: A3.1: <u>Solid Organic Reference Materials</u>	Phthalates Lubricants Organic Acids Sugars Pesticides Alcohols PAH's PCB's <u>Concentration Range:</u> (5.0 to 50 000) µg/g <u>Uncertainty:</u> 12%	GC/MS LC/MS

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



American Association for Laboratory Accreditation

Accredited Reference Material Producer

A2LA has accredited

SPEX CERTIPREP GROUP, LLC.

Metuchen, NJ

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 34:2009 *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 13th day of March 2015.



President & CEO
For the Accreditation Council
Certificate Number 2495.01
Valid to January 31, 2017

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