



SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 34:2009

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REFERENCE MATERIAL PRODUCER

Valid To: September 30, 2018

Certificate Number: 2427.02

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:

<u>Category and sub-category of Reference Material<sup>1</sup></u>	<u>Concentration Ranges</u>	<u>Test, Analysis, Measurement, Methods</u>	<u>Measurement Technique(s)</u>
Certified Reference Materials & Reference Materials			
Category A3.1 Organic Compounds: Single and multi-component homogeneous solutions in organic or aqueous solvents	Volatile Organic Compounds <u>Concentration Range:</u> (0.001 to 100 000) mg/L <u>Uncertainty:</u> 0.1 % to 15.0 %	In-house methods and procedures	GC/MS GC/ECD GC/FID HPLC
	Semi-volatile Organic Compounds <u>Concentration Range:</u> (0.001 to 100 000) mg/L <u>Uncertainty:</u> 0.1 % to 15.0 %	In-house methods and procedures	GC/MS GC/ECD GC/FID HPLC
	Pesticides and PCBs Compounds <u>Concentration Range:</u> (0.001 to 100 000) mg/L <u>Uncertainty:</u> 0.1 % to 15.0 %	In-house methods and procedures	GC/MS GC/ECD GC/FID HPLC

<u>Category and sub-category of Reference Material</u> <sup>1</sup>	<u>Concentration Ranges</u>	<u>Test, Analysis, Measurement, Methods</u>	<u>Measurement Technique(s)</u>
	Miscellaneous Organic Compounds (e.g. glycols, fuels, etc.)  <u>Concentration Range:</u> (0.001 to 100 000) mg/L <u>Uncertainty:</u> 0.1% to 15.0 %	In-house methods and procedures	GC/MS GC/ECD GC/FID HPLC
Category A9.1 pH Standards	pH Standards Range (1 - 14) pH Maximum Relative uncertainty 0.01 %	In-house methods and procedures	Potentiometry
Category A9.3 Conductivity Standards	Conductivity Standards Range (130 – 1300) µmhos/cm Maximum Relative uncertainty 0.01 %	In-house methods and procedures	Electrochemical

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<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

**PHENOVA, INC.**

*Golden, CO*

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*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 30<sup>th</sup> day of May 2017.

President & CEO

For the Accreditation Council

Certificate Number 2427.02

Valid to September 30, 2018

