



SCOPE OF ACCREDITATION TO ISO 17034:2016

PHENOVA, INC.
6390 Joyce Drive, #100
Golden, CO, 80403
Mr. Keith Ward Phone: (303) 940 0033
Email: keithw@phenova.com

REFERENCE MATERIAL PRODUCER

Valid To: November 30, 2020

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 Material¹</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 |
| | 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 |

| <u>Category and sub-category of Reference Material</u> ¹ | <u>Concentration Ranges</u> | <u>Test, Analysis, Measurement, Methods</u> | <u>Measurement Technique(s)</u> |
|---|--|---|---------------------------------|
| 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 |

¹This 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 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 26th day of October 2018.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2427.02
Valid to November 30, 2020
Revised on September 15, 2020



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