



SCOPE OF ACCREDITATION TO ISO 17034:2016

O2SI SMART SOLUTIONS, LLC
(ORGANIC STANDARD SOLUTIONS INTERNATIONAL, LLC)
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REFERENCE MATERIAL PRODUCER

Valid To: February 28, 2023

Certificate Number: 3031.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this Reference Material Producer for the production of single and multi-component certified reference materials and reference materials in the following categories⁴:

Certified Reference Materials/Artifact or Matrix	Concentration Range (mg/L)/ Relative Uncertainties ¹	Approach Used to Assign Property Values	Technologies
Volatile Organic Compounds ²	(0.001 to 100,000) or Highest Soluble Concentration Neat Materials Typically $\leq 5\%$ of actual concentrations but select products may reach $\leq 20\%$	Gravimetric/volumetric formulation verified by testing	GC/GCMS/HPLC/UV-Vis/Wet Chemistry/GC-VUV/HPLC-RID
Semi-Volatile Organic Compounds ²	(0.001 to 100,000) or Highest Soluble Concentration Neat Materials Typically $\leq 5\%$ of actual concentrations but select products may reach $\leq 20\%$	Gravimetric/volumetric formulation verified by testing	GC/GCMS/HPLC/UV-Vis/LCMS Wet Chemistry/GC-VUV/HPLC-RID

Certified Reference Materials/Artifact or Matrix	Concentration Range (mg/L)/ Relative Uncertainties¹	Approach Used to Assign Property Values	Technologies
Pesticides and PCB's ³	(0.001 to 100,000) or Highest Soluble Concentration Neat Materials Typically ≤ 5% of actual concentrations but select products may reach ≤ 20%	Gravimetric/volumetric formulation verified by testing	GC/GCMS/ HPLC/UV- Vis/LCMS/GC-VUV
Non-Volatile Organic Compounds ²	(0.001 to 100,000) or Highest Soluble Concentration Neat Materials Typically ≤ 5% of actual concentrations but select products may reach ≤ 20%	Gravimetric/volumetric formulation verified by testing	GC/GCMS/ HPLC/UV- Vis/LCMS/ Enzymatic Analysis/ Wet Chemistry

For specific compounds, please refer to the o2si website at www.o2si.com.

For specific uncertainties, please refer to the certificates of analyses.

¹ An absolute uncertainty estimate may be determined by multiplying the stated Relative uncertainty by the reported certified reference material value on the certificate. The absolute uncertainty estimate will thus be represented in the units of the value provided on the certified reference material certificate.

² Single and multicomponent organic and aqueous homogeneous solutions and neat materials.

³ Single and multicomponent organic homogeneous solutions and neat materials.

⁴ This reference material producer is approved to produce Certified Reference Materials (CRM) and Reference Materials for all items listed on the scope of accreditation.



Accredited Reference Material Producer

A2LA has accredited

O2SI SMART SOLUTIONS (ORGANIC STANDARD SOLUTIONS INTERNATIONAL, LLC)

North Charleston, SC

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 25th day of February 2021.

A blue ink signature of a person, written over a horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3031.02
Valid to February 28, 2023

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