



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, 2019

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 categories⁵:

Category and sub-category of Certified Reference Material	Concentration Range mg/L	Relative Uncertainties ¹	Technologies
Category A2.6: Chemical – Inorganic			
Inorganic Elements ⁴	(0.001 to 50 000)	Typically $\leq 5\%$ of actual concentrations but select products may reach $\leq 20\%$	ICP/pH/UV Vis /ICPMS/Wet Chemistry
Inorganic Anions and Cations Elements ⁴	(0.001 to 50 000)	Typically $\leq 5\%$ of actual concentrations but select products may reach $\leq 20\%$	IC/ICP/ISE/UV Vis /ICPMS/Wet Chemistry
Category A3.1: Chemical – Organic			
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 $\leq 20\%$	GC/GCMS/HPLC /UV Vis/Wet Chemistry

Category and sub-category of Certified Reference Material	Concentration Range mg/L	Relative Uncertainties ¹	Technologies
Category A3.1: Chemical – Organic			
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 $\leq 20\%$	GC/GCMS/ HPLC/UV Vis/ LCMS/ Wet Chemistry
Pesticides and PCB's ³	0.001 to 100 000 or Highest Soluble Concentration Neat Materials	Typically $\leq 5\%$ of actual concentrations but select products may reach $\leq 20\%$	GC/GCMS/ HPLC/UV Vis/LCMS
Non-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 $\leq 20\%$	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 Single and multicomponent aqueous and organometallic homogeneous solutions

⁵ 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)

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 30th day of August 2017.

President and CEO
For the Accreditation Council
Certificate Number 3031.02
Valid to February 28, 2019



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