



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PRECILAB
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CHEMICAL

Valid To: October 31, 2018

Certificate Number: 2234.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on ultra-pure water and chemicals used in the semiconductor industry:

<u>Test Description</u>	<u>Precilab Test Method</u>
<u>Trace Element Analysis of Chemicals and Ultra Pure Water</u>	
Trace Elements in Semiconductor Chemicals, Solvents, and Ultra-Pure Water by ICP-MS	PR-IN01, PR-IN23
Preparation of Samples for Trace ICPMS Element Analysis	PR-IN14
Trace Element Analysis by ICP-OES	PR-IN02
LP-ICPMS Analysis of Silicon Wafers	PR-IN27
<u>Anions and Cations by Ion Chromatography</u>	
Anions in H ₂ O ₂ by Ion Chromatography	PR-IN16
Anions in Diluted HF by Ion Chromatography	PR-IN09
Anions in Concentrated HF by Ion Chromatography	PR-IN10
Anions (ppt) in Ultra-Pure Water by Ion Chromatography	PR-IN11
Cations (ppt) in Ultra-Pure Water by Ion Chromatography	PR-IN12
Caustic Anion Analysis Procedure by Metrohm Ion Chromatography	PR-IN15
Dionex Ion Chromatography Operation Procedure	PR-IN06
Cations in DI Water and Solvents by Ion Chromatography	PR-IN21

Chemical and Solvent Titrations

Acid, Base and H₂O₂ Titrations PR-IN04

Moisture Analysis of Solvents by Karl Fischer PR-IN18

Mixed Acid Assay by Ion Chromatography PR-IN22

Miscellaneous Analysis

UV-Vis Spectrometer Analysis PR-IN24

Dissolved Silica in Water by UV-Vis PR-IN33

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Accredited Laboratory

A2LA has accredited

PRECILAB

Carrollton, TX

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 6th day of September 2016.

A handwritten signature in black ink, appearing to read "L. S. ...", positioned above a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2234.01
Valid to October 31, 2018
Revised December 5, 2017

For the types of tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.