



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GRUENTEC CÍA. LTDA.  
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CHEMICAL

Valid To: July 31, 2019

Certificate Number: 4290.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests:

**Food:**

<u>Test/Technology</u>	<u>Reference Method(s)</u>	<u>Internal Method</u>
Histamine by HPLC in fish and sea food (raw and processed)	AOAC 957.07	MM-FD/04
Metals (As, Cd, Cu, Fe, Hg, Mn, Pb, Se, Zn) by ICP/MS in fish and sea food (raw and processed)	EPA 200.3; EPA 6020B	MM-AG/S-39
Polycyclic Aromatic Hydrocarbons by GC/MS in fish and sea food (raw and processed)	EPA 3500C; EPA 8270	MM-AG/S-22
Total Petroleum Hydrocarbons by GC/FID in fish and sea food (raw and processed)	EPA 3500C; EPA 8015D	MM-AG/S-23

**Environmental Sampling:**

<u>Test</u>	<u>Technology(ies)</u>	<u>Reference Method(s)</u>	<u>Internal Method(s)</u>
Biopile Samples	Sample Transfer Devices (Blasthole, Spadful)	ASTM D6044-96	MP-DC/06 and annexes
Drilling Mud Samples		ISO 10381-5:2005, IDT; ASTM D4547	
Spill Samples		ASTM D6044-96	

<b><u>Test</u></b>	<b><u>Technology(ies)</u></b>	<b><u>Reference Method(s)</u></b>	<b><u>Internal Method(s)</u></b>	
Drinking Water Samples	Automatic Sample Collection, Sample Transfer Devices (Bucket, Sample Pole)	ISO 5667-1:2006, IDT; NTE INEN 1 108:2010	MP-DC/06 and annexes	
Process Water Samples		ISO 5667-1:2006, IDT; ISO 5667-5:2006, IDT		
Waste Water Samples		ISO 5667-1:2006, IDT; ISO 5667-10:2006, IDT		
Lagoon Samples	Peristaltic Pumps, Direct Sample Collection, Depth Sampler	ISO 5667-1:2006, IDT; ISO 5667-4:2006, IDT		
Sea Water Samples		ISO 5667-1:2006, IDT; ISO 5667-9:2006, IDT		
Underground Water Samples		ISO 5667-1:2006, IDT; NTC-ISO 5667-11		
Process Sludge Samples (CRETIB)	Sample Transfer Devices (Spadful)	ISO 5667-13:2011, IDT; ASTM D4547		
River Sediment Samples	Sample Transfer Devices (Dredger)	ISO 5667-15:2009, IDT		
Sea Sediment Samples		ISO 5667-15:2009, IDT; ISO 5667-19:2004, IDT		
Soil Quality	Sample Transfer Devices (Blasthole)	ISO 10381-1:2002, IDT; ISO 10381-2:2002, IDT; ISO 10381-3:2002, IDT; ISO 10381-4:2002, IDT		
Surface Water Samples	Sample Transfer Devices (Bucket, Sample Pole)	ISO 5667-1:2006, IDT; ISO 5667-6:2006, IDT		

**Environmental Testing in Field:**

<b><u>Test</u></b>	<b><u>Technology</u></b>	<b><u>Reference Method(s)</u></b>	<b><u>Internal Method</u></b>
Electrical Conductivity	Electrode Cell Probe	Standard Methods for Examination of Water and Wastewater 22th ed. 2012, 2510 EPA 9050 A	MM-AG-02



<u>Test</u>	<u>Technology</u>	<u>Reference Method(s)</u>	<u>Internal Method</u>
Dissolved Oxygen	Polarographic Probe	Standard Methods for Examination of Water and Wastewater 22th ed. 2012, 4500 OG EPA 360.1 HACH 10360	MM-AG-03
pH	Potentiometric	Standard Methods for Examination of Water and Wastewater 22th ed. 2012, 4500 H <sup>+</sup>	MM-AG-01
Residual Free Chlorine	Colorimetric	Standard Methods for Examination of Water and Wastewater 22th ed. 2012, 4500 CI G EPA 330.5, 1996	MM-AG-07
Temperature	Thermometric	Standard Methods for Examination of Water and Wastewater 22th ed. 2012, 2550	MM-AG-43





## Accredited Laboratory

A2LA has accredited

**GRUENTEC CÍA. LTDA.**

*Quito, ECUADOR*

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 7<sup>th</sup> day of June 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 4290.01  
Valid to July 31, 2019

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