



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ALGORITMOS Y MEDICIONES AMBIENTALES, SPA

Seminario 180

Santiago, CHILE

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CHEMICAL

Valid To: March 31, 2019

Certificate Number: 4235.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this organization to perform recognized methods using the following testing technologies and in the analyte categories identified below:

<u>Parameter</u>	<u>Method- Waste Water</u>
pH	NCh 2313/1. 1995
Total Suspended Solids	NCh 2313/3. 1995
Settable Solids	NCh 2313/4. 1995
Arsenic	NCh 2313/9. 1996
Cadmium	NCh 2313/10. 1996
Chlorine	NCh 2313/32. 1999
Chrome	NCh 2313/10. 1996
Copper	NCh 2313/10. 1996
Iron	NCh 2313/10. 1996
Lead	NCh 2313/10. 1996
Manganese	NCh 2313/10. 1996
Mercury	NCh 2313/12. 1996
Molybdenum	NCh 2313/13. 1998
Nickel	NCh 2313/10. 1996
Selenium	NCh 2313/30. 1999
Zinc	NCh 2313/10. 1996

<u>Parameter</u>	<u>Method- Superficial, Underground, Waste and Drinking Water</u>
Aluminum	SM 3111D-2012
Arsenic	SM 3114B-2012
Barium	SM 3111D-2012
Beryllium	SM 3111D-2012
Cadmium	SM 3111B-2012
Calcium	SM 3111B-2012
Chlorides	SM 4500-Cl B-2012
Chrome	SM 3111B-2012
Cobalt	SM 3111B-2012
Conductivity	SM 2510B-2012

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<u>Parameter</u>	<u>Method- Superficial, Underground, Waste and Drinking Water</u>
Copper	SM 3111B-2012
Iron	SM 3111B-2012
Lead	SM 3111B-2012
Lithium	SM 3111B-2012
Magnesium	SM 3111B-2012
Manganese	SM 3111B-2012
Mercury	SM 3112B-2012
Molybdenum	SM 3111D-2012
Nickel	SM 3111B-2012
pH	SM 4500-H ⁺ B-2012
Potassium	SM 3111B-2012
Selenium	SM 3114B-2012
Silver	SM 3111B-2012
Sodium	SM 3111B-2012
Tin	SM 3111B-2012
Turbidity	SM 2130B-2012
Vanadium	SM 3111D-2012
Zinc	SM 3111B-2012
Acidity	SM 2310B-2012
Alkalinity, total	SM 2320B-2012
Color	SM 2120B-2012
Dissolved solids, total	SM 2540C-2012
Hydroxides	SM 2320B-2012
NA % (sodium percentage)	NCh 1333-1978 Modification 1987 (Calculation)
Nitrate	SM 4500-NO ₃ B-2012
Nitrite	SM 4500-NO ₂ B-2012
Odor	SM 2150B-2012
RAS (sodium adsorption ratio)	NCh 1333-1978 Modification 1987(Calculation)
Settleable Solids	SM 2540F-2012
Sulfate	SM 4500-SO ₄ D-2012
Suspended Solids, Total	SM 2540D-2012
Total Hardness	SM 2340B-2012
Total Solids	SM 2540B-2012

<u>Parameter</u>	<u>Method- Soil, Solid and Aqueous Waste</u>
Arsenic	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3114B-2012
Barium	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3111D-2012
Cadmium	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3111B-2012
Chrome	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3111B-2012

<u>Parameter</u>	<u>Method- Soil, Solid and Aqueous Waste</u>
Lead	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3111B-2012
Mercury	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3112B-2012
Selenium	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3114B-2012
Silver	TCLP EPA 1311/NCh 2754-2003 SPLP EPA 1312/NCh 2746-2003 SM 3111B-2012

<u>Parameter</u>	<u>Method- Drinking Water</u>
Odor	ME-25-2013

In Fixed Sources Isokinetic Filters and Recoveries

<u>Parameter</u>	<u>Method</u>
Particulate Material	Method Ch5 based on EPA 5



Accredited Laboratory

A2LA has accredited

ALGORITMOS Y MEDICIONES AMBIENTALES SPA

Santiago, CHILE

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 11th day of September 2017.

A handwritten signature in black ink, appearing to read 'L. Sen', written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4235.02
Valid to March 31, 2019

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