SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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BIOLOGICAL

Valid To: March 31, 2027 Certificate Number: 4057.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on food, processed food, fruits, vegetables, juices, wines, meat, dairy products, prepared meal, egg, milk, fat, flour, seafood products, fishmeal, fish oil, feed, drinking water, and environmental samples (utensils, surfaces, air, and manipulators):

Test/Technology	Internal Method(s)	Reference Method(s)
Colony Count		
Aerobic Mesophilic – UFC	CQ-MIC-002-D	NCh 2659
Aerobic Mesophilic – UFC	CQ-MIC-002-D/1	ISO 4833-1
Aerobic Mesophilic – UFC – Environmental Samples	CQ-MIC-003-D/B	FDA BAM Online Chapter 3 ISO 18593 NCh 3057
Aerobic Mesophilic – UFC – Environmental Samples	CQ-MIC-050-D	ISO 18593 NCh 2659 NCh 3057
Bacillus cereus – UFC	CQ-MIC-053-D	FDA BAM Online Chapter 14
Clostridium perfringens – UFC	CQ-MIC-017-D/A	FDA BAM Online Chapter 16
Coliforms – UFC	CQ-MIC-006-D	NCh 2635/2
Enterobacteriaceae – UFC	CQ-MIC-026-D	ISO 21528-1 NCh 2676
Enterobacteriaceae – UFC – Environmental Samples	CQ-MIC-049-D	ISO 18593 NCh 2676 NCh 3057
Escherichia coli β-Glucoronidase (+) – UFC	CQ-MIC-058-D/2	ISO 16649/2
E. coli & Total Coliforms – UFC – Environmental Samples	CQ-MIC-048-D	ISO 16649/2 ISO 18593 NCh 2635/2 NCh 3057

Test/Technology	Internal Method(s)	Reference Method(s)
Colony Count (cont'd)		
Heterotrophic Bacteria in Water – UFC	CQ-MIC-072-D	SM 9215B (PCA)
Lactobacillus spp. – UFC	CQ-MIC-025-D	Compendium of Methods for the Microbiological Examination of Foods, Chapter 19 (19.52 Acidific MRS Agar)
Listeria monocytogenes – UFC – Environmental Samples	CQ-MIC-042-D	ISO 11290/2 ISO 18593 NCh 3057
Listeria spp. & *L. monocytogenes* – UFC	CQ-MIC-066-D	ISO 11290/2
Listeria spp. & *L. monocytogenes* – UFC	CQ-MIC-066-D/1	NCh 2657/2
Molds & Yeasts – UFC, Plate Count	CQ-MIC-021-D	NCh 2734
Molds & Yeasts – UFC, Plate Count	CQ-MIC-021-D/B	FDA BAM Online Chapter 18
Molds & Yeasts – UFC – Environmental Samples	CQ-MIC-021-D/C	ISO 18593 NCh 2734 NCh 3057
Molds by Heat Resistant – UFC in Juice and Musts	CQ-MIC-022-D/B	Compendium of Methods for the Microbiological Examination of Foods, Chapter 22 (22.41)
Spore-forming Anaerobic Thermophilic Microorganisms – UFC	CQ-MIC-004-D	Compendium of Methods for the Microbiological Examination of Foods, Chapter 27
Staphylococcus aureus – UFC	CQ-MIC-009-D	NCh 2671
S. aureus – UFC	CQ-MIC-011-D	FDA BAM Online Chapter 12
S. aureus – UFC – Environmental Samples	CQ-MIC-051-D	ISO 18593 NCh 2671 NCh 3057
Sulfite Reducer	CQ-MIC-005-D	NCh 2730
Sulfite-Reducing *Clostridium* spp. – UFC	CQ-MIC-063-D	ISO 15213
TAB (Thermophilic Acidophilus Bacterium)	CQ-MIC-055-D	IFU Standard MM12
TAB (Thermophilic Acidophilus Bacterium)	CQ-MIC-055-D/A	AOAC 966.04
Detection		
Aerobic & Anaerobic Mesophiles and Thermophiles	CQ-MIC-047-D	NCh 2731
Aspergillus spp.	CQ-MIC-021-D/E	NCh 2735
E. coli O157:H7	CQ-MIC-034-D	FDA BAM Online Chapter 4A
L. monocytogenes & *Listeria* spp.	CQ-MIC-065-D	ISO 11290/1

Test/Technology	Internal Method(s)	Reference Method(s)
Detection (cont'd)		
L. monocytogenes & *Listeria* spp. – Environmental Samples	CQ-MIC-065-D/2	ISO 11290/1 ISO 18593 NCh 3057
L. monocytogenes & *Listeria* spp.	CQ-MIC-065-D/1	NCh 2657
Pseudomonas spp.	CQ-MIC-036-D	ISO 13720
Salmonella spp.	CQ-MIC-014-D	NCh 2675
Salmonella spp.	CQ-MIC-060-D	ISO 6579-1
Salmonella spp.	CQ-MIC-060-D/2	FDA BAM Online Chapter 5
Salmonella spp. – Environmental Samples	CQ-MIC-067-D	ISO 6579 Amd1 ISO 18593 NCh 3057
Salmonella spp. (Rapid Bio-Rad)	CQ-MIC-060-D/1	BRD:07/11-12/05 ISO 6579/16140
Shigella spp.	CQ-MIC-023-D	ISO 21567
Vibrio parahaemolyticus	CQ-MIC-015-D/B	ISO 21872-1 Amd 1
Membrane Filtration (Water)		
E. coli – UFC	CQ-MIC-070-D	EPA Method 1103
E. coli & Coliforms – UFC	CQ-MIC-059-D	EPA Method 1604
Intestinal Enterococci – UFC	CQ-MIC-043-D	ISO 7899/2
Legionella spp. – UFC	CQ-MIC-071-D	ISO 11731
Salmonella spp.	CQ-MIC-068-D	Method of DW 2006B
Shigella spp.	CQ-MIC-024-D	SM 9260E
S. aureus – UFC	CQ-MIC-062-D	SM 9213B
Total Coliform – UFC	CQ-MIC-038-D/B	NCh 1620/2
Molecular Biology		
Gluten	CQ-MIC-049-T	AOAC Performance Tested, Veratox Gliadin R5 Test (Neogen)
Hepatitis A Virus & Norovirus GI and GII using RT-PCR Part 2: Method for Detection in Frozen Fruits	CQ-MIC-024-T	ISO 15216-2
Mycotoxins by ELISA (Deoxynivalenol [Vomitoxin], Fumonisin, Ochratoxins, Total Aflatoxins, and Zearalenone)	CQ-MIC-028-T	AOAC-RI 050901 Veratox Aflatoxin USDA/GIPSA 2015-070
Salmonella Bio-Rad iQ-Check	CQ-MIC-025-T	AOAC 2017.06 AOAC RI 010803
Shiga Toxin-producing *E. coli* (STEC) & O157:H7, O145, O111, O26, O103, O121, O157, O45, and Big 6	CQ-MIC-048-T	ISO/TR 13136
Most Probable Number (MPN)		
Coliforms, Fecal Coliform, and *E. coli* – MPN	CQ-MIC-040-D	NCh 2732

Test/Technology	Internal Method(s)	Reference Method(s)
Most Probable Number (MPN) (cont'd)		
Enterobacteriaceae – MPN	CQ-MIC-027-D	NCh 2676
E. coli – MPN	CQ-MIC-007-D/A	NCh 2636
E. coli β-Glucoronidase (+) – MPN	CQ-MIC-058-D/1	ISO / TS 16649-3 NCh 3056
E. coli, Fecal Coliforms, & Total Coliforms – Environmental Samples	CQ-MIC-048-D/A	ISO 18593 NCh 2635/1 NCh 2636 NCh 3057
Total Coliforms Bacteria & *E. coli* – MPN	CQ-MIC-037-D	NCh 1620/1
Total Coliforms and Fecal Coliforms – MPN	CQ-MIC-007-D	NCh2635/1
V. parahaemolyticus – MPN	CQ-MIC-015-D/C	FDA BAM Online Chapter 9
Others		
Components of Animal Origin – Microscopic Examination	CQ-MIC-037-I	Regulation (UE) Nº51:2013
Components of Animal Origin – Microscopic Examination	CQ-MIC-037-I	Regulation (UE) N°152:2009
Dermestes spp.	CQ-MIC-022-T	Manual de Inocuidad y Certificación Sernapesca, parte II, sección III, capítulo IV versión online
Organoleptic & Physical Test	CQ-MIC-023-T	Manual de Inocuidad y Certificación Sernapesca, parte II, sección III, capitulo IV versión online
Water Activity	CQ-MIC-026-T	ISO 18787
VIDAS Methods		
L. monocytogenes – Detection in Foods – VIDAS LMX	-----	AFNOR Bio 12/27-02/10
Salmonella spp. – Detection in Foods – VIDAS UP	-----	AFNOR Bio 12/32-10/11

Note: When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 – General Requirements – Accreditation of ISO-IEC 17025 Laboratories.

Accredited Laboratory

A2LA has accredited

ALS FOOD CHILE S.A.

Santiago, CHILE

for technical competence in the field of

Biological Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).

Presented this 24th day of April 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4057.02
Valid to March 31, 2027
Revised August 20, 2025

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