



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CORTHORN QUALITY
Palacio Riesco 4549
Huechuraba, Santiago, Chile 8580645
Francisca Corthorn Phone: +56 225808000
Email: francisca@corthorn.cl

BIOLOGICAL

Valid To: March 31, 2023

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, drinking water, utility water, utensils, surfaces, environmental samples, and manipulators:

<u>Test/Technology</u>	<u>Internal Method(s)</u>	<u>Reference Method(s)</u>
Colony Count		
Aerobic Mesophilic – Petrifilm	CQ-MIC-002-D/A	3M Petrifilm, March 2002; AOAC 990.12
Aerobic Mesophylls and Psychrophiles on Surfaces	CQ-MIC-050-D	FDA BAM Chapter 3; ISO 18593:2013; NCh 2659:2002; NCh 3057:2007
Aerobic Mesophylls by Plate Count in Food at 35°	CQ-MIC-002-D	FDA BAM Chapter 3; NCh 2659:2002
Aerobic Mesophylls, Mold, and Yeast per Sedimentation Plate on Environmental Samples	CQ-MIC-003-D/B	FDA BAM Online; ISO 18593:2013; NCh 2659:2002; NCh 3057:2007
Aerobic Plate Count in Milk and Milk Products at 32°	CQ-MIC-002-D	ISO 4833/2013
<i>Aspergillus</i> in Fishmeal	CQ-MIC-21-D/E	NCh 2735:2002
<i>Bacillus cereus</i> in Food by Plate Count and MPN	CQ-MIC-053-D	FDA BAM Chapter 14
<i>Clostridium</i> (Spores Sulfite Reducing)	CQ-MIC-063-D	ISO 15213:2003
<i>Clostridium perfringens</i> – Plate Count in Food, Seafood Products, Fishmeal, and Fish Oil	CQ-MIC-017-D/A	FDA BAM Chapter 16

<u>Test/Technology</u>	<u>Internal Method(s)</u>	<u>Reference Method(s)</u>
Enterobacteriaceae – Plate Count	CQ-MIC-026-D	ISO 21528-1:2017; NCh 2676:2002; NCh 3057:2007
Enterobacteriaceae – Plate Count on Surfaces and Manipulators	CQ-MIC-049-D	ISO 18593:2018; ISO 21528-1:2017; NCh 2676:2002; NCh 3057:2007
<i>Escherichia coli</i> – Petrifilm	CQ-MIC- 075-D	3M Petrifilm, March 2002; AOAC 991.14
<i>E. coli</i> , Coliforms, and Fecal Coliforms – Plate Count in Food	CQ-MIC-006-D	NCh 2635/2:2001
<i>E. coli</i> , Fecal Coliforms, and Total Coliforms – Plate Count on Surfaces and Manipulators	CQ-MIC-048-D	ISO 18593:2013; NCh 2635/2:2001; NCh 3057:2007
Heterotrophic Bacteria in Water	CQ-MIC-072-D	Standard Methods 9215
<i>Lactobacillus</i> – Plate Count	CQ-MIC-025-D	Compendium of Methods for the Microbiological Examination of Foods, Chapter 15
<i>Listeria monocytogenes</i> – Enumeration on Surfaces	CQ-MIC-042-D	ISO 11290/2:2017; ISO 18593:2013; NCh 2657/2:2007; NCh 3057:2007
<i>L. monocytogenes</i> and <i>Listeria</i> spp. – UFC	CQ-MIC-066-D CQ-MIC-066-D/1	ISO 11290/2:2017; NCh 2657/2:2007
<i>Listeria</i> spp. – Petrifilm	-----	AOAC 030601
Molds by Heat Resistant Enumeration in Juice and Musts	CQ-MIC-022-D/B	Compendium of Methods for the Microbiological Examination of Foods, Chapter 17
<i>Salmonella</i> – Petrifilm	CQ-MIC-076-D	3M Petrifilm, March 2018; AOAC 2014.01
<i>Staphylococcus aureus</i> – UFC on Surfaces and Manipulators	CQ-MIC-051-D	ISO 18593:2013; NCh 2671:2002; NCh 3057:2007
<i>S. aureus</i> Coagulase Positive – Plate Count	CQ-MIC-009-D	FDA BAM Online, Chapter 12; ISO 18593:2013; NCh 2671:2002; NCh 3057:2007
Sulfite Reducer – Plate Count in Food	CQ-MIC-005-D	NCh 2730:2002
TAB (Thermophilic Acidophilus Bacterium)	CQ-MIC-055-D/A; CQ-MIC-055-D/B	IFU Standard 12:2007; AOAC 966.04

<u>Test/Technology</u>	<u>Internal Method(s)</u>	<u>Reference Method(s)</u>
Thermotolerant Microorganism – UFC in Foods	CQ-MIC-004-D/A	Compendium of Methods for the Microbiological Examination of Foods, Chapter 22
Thermophile Microorganism – UFC in Foods	CQ-MIC-004-D	Compendium of Methods for the Microbiological Examination of Foods, Chapter 22
Yeasts and Molds – Plate Count in Food, Surfaces, Environmental Samples, and Manipulators	CQ-MIC-021-D; CQ-MIC-021-D/A; CQ-MIC-021-D/C	AOAC 2014.05; AOAC 997.02; FDA BAM Chapter 18; ISO 18593:2013; NCh 2734:2002; NCh 3057:2007
Detection		
Aerobic Mesophylls and Aerobic and Anaerobic Thermophiles in Canned Food	CQ-MIC-047-D	NCh 2731:2002
<i>E. coli</i> , Coliforms, Fecal Coliforms, and Total Coliforms – Presence/Absence on Surfaces and Manipulators	CQ-MIC-048-D/A	ISO 18593:2013; NCh 2635/2:2001; NCh 2636:2001; NCh 3057:2007
<i>E. coli</i> O157:H7	CQ-MIC-034-D	FDA BAM Chapter 4A
<i>L. monocytogenes</i> – Detection	CQ-MIC-065-D CQ-MIC-065-D/1	ISO 11290/1:2017; NCh 2657:2001
<i>Pseudomonas aeruginosa</i> – Detection in Food	CQ-MIC-036-D	ISO 13720:2010
<i>S. aureus</i> – Presence/Absence	CQ-MIC-011-D	FDA BAM Online, Chapter 12
<i>Salmonella</i> – Detection in Food, Fishmeal, and Fish Oil	CQ-MIC-060-D	FDA BAM Chapter 5
<i>Salmonella</i> – Detection on Surfaces	CQ-MIC-067-D	ISO 6579:2002; ISO 18593:2013; NCh 3057:2007
<i>Salmonella</i> – Rapid BIO-RAD	CQ-MIC-060/1-D	BRD 07/11-12/05
<i>Salmonella</i> – Presence/Absence	CQ-MIC-060-D	ISO 6579:2017
<i>Salmonella</i> – Presence/Absence in Food	CQ-MIC-014-D	NCh 2675:2002
<i>Shigella</i> spp. – Detection in Food	CQ-MIC-023-D	ISO 21567:2016
Total Coliforms – Detection	CQ-MIC-046-D	Gost R 52816:2007

<u>Test/Technology</u>	<u>Internal Method(s)</u>	<u>Reference Method(s)</u>
<i>Vibrio parahaemolyticus</i> – Determination	CQ-MIC-015-D/B/C	FDA BAM, 2001, Chapter 9 Section V
Water Activity in Food Products	CQ-MIC-026-T	AOAC 978.18
Detection (Molecular Biology)		
Determination of Hepatitis A Virus and Norovirus GI and GII using RT-PCR Part2: Method for Detection in Frozen Fruits	CQ-MIC-024-T	ISO 15216-2:2019
<i>Salmonella</i> via Bio-Rad iQ-Check	CQ-MIC-025-T	AOAC RI 010803; AOAC 2017.06
Membrane Filtration		
<i>E. coli</i> and Coliform – Enumeration in Water	CQ-MIC-059-D	EPA Method 1604/1:2002
<i>E. coli</i> – UFC in Water	CQ-MIC-070-D	EPA Method 1103/1/2010
<i>Enterococcus faecalis</i> – Detection/Enumeration in Water	CQ-MIC-043-D	ISO 7899/2:2000
<i>Legionella</i> – Enumeration in Water	CQ-MIC-071-D	ISO 11731:2017
<i>P. aeruginosa</i> – Enumeration in Recreational Water	CQ-MIC-069-D	ISO 16266
<i>S. aureus</i> – Presence/Absence in Recreational Water	CQ-MIC-062-D	SM 9213B
<i>Salmonella</i> – Enumeration in Water	CQ-MIC-068-D	Method of DW 2006B
<i>Shigella</i> in Water – Presence/Absence in Low Turbidity Water	CQ-MIC-024-D; CQ-MIC-024-D/A	STANDARD METHOD WATER 2006/PART 9; SMWW 9260 E/2006
Total Coliform Determination in Water	CQ-MIC-038-D/B	NCh 1620:2020
Most Probable Number (MPN)		
<i>E. coli</i> and Fecal Coliforms – Determination and NMP	CQ-MIC-040-D	NCh 2732:2002
<i>E. coli</i> , Fecal Coliforms, and Total Coliforms – Determination and NMP	CQ-MIC-007-D	NCh 2635/1:2001; NCh 2636:2001
<i>E. coli</i> Glucuronidasa (+) NMP – UFC	CQ-MIC-058-D/1-D/2	ISO 16649/1:2018; ISO 16649/3:2016

<u>Test/Technology</u>	<u>Internal Method(s)</u>	<u>Reference Method(s)</u>
Enterobacteriaceae – NMP	CQ-MIC-027-D	NCh 2676:2002
<i>S. aureus</i> – NMP in Foods, Seafood, and Dairy Products	CQ-MIC-010-D; CQ-MIC-010-D/A	ISO 6888/3:2003; NCh 2828:2003
Total Coliforms – NMP in Chlorinated Water and Non-Chlorinated Water	CQ-MIC-037-D; CQ-MIC-038-D; CQ-MIC-038-D/A	NCh 1620-1:2020
Others		
Determination of the Components of Animal Origin – Microscopic Examination	CQ-MIC-037-I	Regulation (UE) N°51:2013
Determination of <i>Dermestes</i> spp. in Fishmeal	CQ-MIC-022-T	Manual de Inocuidad y Certificación de SERNAPESCA Dic-2018
Organoleptic and Physical Test in Hydrobiological Products	CQ-MIC-023-T	Safety and Certification Manual Online SERNAPESCA
VIDAS Methods		
<i>L. monocytogenes</i> – Detection in Foods – VIDAS LMX	-----	AFNOR Bio 12/27-02/10
<i>Salmonella</i> spp. – Detection in Foods – VIDAS UP	-----	AFNOR Bio 12/32-10/11



Accredited Laboratory

A2LA has accredited

CORTHORN QUALITY

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 16th day of March 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4057.02
Valid to March 31, 2023

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