

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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BIOLOGICAL

Valid To: May 31, 2023

Certificate Number: 3921.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>food, fruits, vegetables, juices, wines, meat, dairy products, prepared meal, eggs, fat, flour, animal products</u> and feed, drinking water, continental water, utility water, surfaces, utensils, ambiances, and handlers:

Test	Test Method	Reference Method (s) ¹
Detection (Presence/Absence)		
Detection of Mesophiles, Thermophiles, Aerobes, and	MQM-005	NCh 2731
Anaerobes in Food, Canned Food, Fruits, Vegetables, Juices,		
Wines, Fat, Flour, Animal Products, and Feed		
Listeria monocytogenes in Food, Fruits, Vegetables, Juices,	MQM-003	NCh 2657
Wines, Fat, Meat, Flour, Animal Products, and Feed		
L. monocytogenes in Food, Fruits, Vegetables, Juices, Wines,	MQM-079	ISO 11290/1
Fat, Meat, Flour, Animal Products, and Feed		
L. monocytogenes on Hands, Surfaces, and Utensils	MQM-031	NCh 2657
Listeria spp. in Food, Fruits, Vegetables, Juices, Wines, Fat,	MQM-047	NCh 2657
Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour,		
Animal Products, Feed, Surfaces, Utensils, and Handlers		
Salmonella – NCh in Food, Fruits, Vegetables, Juices, Wines,	MQM-006	NCh 2675
Meat, Dairy Products, Prepared Meal, Eggs, Fat, Flour,		
Animal Products, and Feed		
Salmonella in Food, Fruits, Vegetables, Juices, Wines, Meat,	MQM-007	ISO 6579
Dairy Products, Prepared Meals, Eggs, Fat, Flour, Animal		
Products, and Feed		
Salmonella on Handlers, Surfaces, and Utensils	MQM-033	NCh 2675
Staphylococcus aureus by on Handlers, Surfaces and Utensils	MQM-042	NCh 2671
Enumeration – Plate Count		
Acid Lactic Bacteria in Food, and Feed	MQM-045	ISO 15214
Aerobic Mesophiles (35°C) in Free Sedimentation and	MQM-039	Standard Methods for the Examination
Environments		of Dairy Products Free Sedimentation
Aerobic Mesophiles (35°C) – Qualification in Ambiances,	MQM-030	NCh 2659
Surfaces, and Utensils		

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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test	Test Method	Reference Method(s) ¹
Aerobic Mesophiles (35°C) in Food, Fruits, Vegetables,	MQM-021	NCh 2659
Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal,		
Sugar, Eggs, Flour, Animal Products, and Feed		
Aerobic Mesophiles (35°C) on Hands, Surfaces, and Utensils	MQM-040	NCh 2659
Bacillus cereus in Food, Fruits, Vegetables, Juices, Wines,	MQM-010	BAM Ch. 14
Meat, Dairy Products, Prepared Meal, Fat, Flour, Animal		
Products, and Feed		
Clostridium perfringens and Sulfite-Reducing Anaerobes in	MQM-011	BAM Ch. 16
Food, Fruits, Vegetables, Juices, Wines, Fat, Meat, Dairy		
Products, Prepared Meal, Flour, Animal Products, and Feed		
Enterobacteria in Food, Fruits, Vegetables, Juices, Wines,	MQM-016	NCh 2676
Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Fat,		
Flour, Animal Products, and Feed		
Enterobacteria on Handlers, Surfaces, and Utensils	MQM-036	NCh 2676
Escherichia coli in Food and Surfaces	MQM-053	ISO 16649-2
<i>E. coli</i> on Handlers, Surfaces and Utensils	MQM-043	NCh 2636
Fecal Enterococci in Drinking, Continental, and Utility	MQM-051	ISO 7899-2
Waters	-	
Heterotrophs in Drinking, Continental, and Utility Waters	MQM-056	SM 9215-B
L. monocytogenes CFU in Food, Fruits, Vegetables, Juices,	MQM-019	NCh 2657/2
Wines, Fats, Meat, Dairy Products, Prepared Meals, Sugars,	-	
Eggs, Flour, Animal Products, and Feed		
Lactobacillus spp. in Food, and Feed	MQM-044	ISO 15214
Mold and Yeast – Free Sedimentation on Ambiances	MQM-037	Standard Methods for the Examination
		of Dairy Products Free Sedimentation
Mold and Yeast in Food, Fruits, Vegetables, Juices, Wines,	MQM-018	NCh 2734
Meat, Dairy Products, Prepared Meals, Sugar, Eggs, Fat,		
Flour, Animal Products, and Feed		
Mold and Yeast on Handlers, Surfaces, and Utensils	MQM-038	NCh 2734
S. aureus – Coagulase Positive CFU/g in Food, Fruits,	MQM-023	NCh 2671
Vegetables, Juices, Wines, Fat, Meat, Dairy Products,		
Prepared Meals, Sugar, Eggs, Flour, Animal Products, and		
Feed		
S. aureus on Handlers, Surfaces, and Utensils	MQM-041	NCh 2671
Total Coliforms in Food, Fruits, Vegetables, Juices, Wines,	MQM-012	NCh 2635/2
Meat, Dairy Products, Prepared Meal, Fat, Flour, Animal		
Products, and Feed		
Total Fecal Coliforms on Surfaces, Utensils, and Handlers	MQM-035	NCh 2635/2
Membrane Filtration		
Detection and Counting of <i>E. coli</i> and Coliform Bacteria by	MQM-027	NCh 9308/1,
Chromogenic in Drinking, Continental, and Utility Waters		SM 9222B, 9222D, 9222G
L. monocytogenes in Drinking, and Utility Waters	MQM-052	NCh 2657
Salmonella spp. in Drinking, and Utility Waters	MQM-050	SM9260B
Total Coliforms and E. coli in Drinking, Continental, and	MQM-026	NCh 1620/2
Utility Water		ME-02-2007

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Test	Test Method	<u>Reference Method(s)</u> ¹
MPN		
Determination of Vibrio parahemolyticus	MQM-055	BAM Ch. 9
E. coli in Food, Fruits, Vegetables, Juices, Wines, Fat, Meat,	MQM-017	NCh 2636
Dairy		
Products, Prepared Meal, Sugar, Eggs, Flour, Animal		
Products, and Feed		
S. aureus – Coagulase Positive in Food, Fruits, Vegetables,	MQM-024	NCh 2828
Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal,		
Sugar, Eggs, Flour, Animal Products, and Feed		
Total and Fecal Coliforms, and <i>E. coli</i> ISO in Drinking,	MQM-028	SM 9221B, 9221E, 9221F
Continental, and Utility Waters	-	
Total and Fecal Coliforms in Food, Fruits, Vegetables,	MQM-013	NCh 2635/1
Juices, Wines, Fat, Meat, Dairy Products, Prepared Meal,	-	
Flour, Animal Products, and Feed		
Total Coliforms, and E. coli (Chromogenic Method) in	MOM-029	NCh 2043
Drinking, Continental, and Utility Waters		
Total Coliforms and <i>E. coli</i> in Drinking, Continental, and	MOM-025	NCh 1620/1
Utility Waters		ME-01-2007
Total Fecal Coliforms, and E. coli on Handlers, Surfaces, and	MOM-048	NCh 2635/1
Utensils		NCh 2636
PCR		
Detection of S. aureus and E. coli by Multiplex PCR Final	MOV-007	- Furrer et al. 1991. Detection and
Point on		identification of <i>Listeria</i>
Surfaces, Utensils, Handlers Waters and Food		<i>monocytogenes</i> in cooked sausage
		products and in milk by in vitro
		amplification of haemolysin gene
		fragments. J. Appl. Bacteriol. 70:372–
		379
		- Shome, et al, 2011. Multiplex PCR
		assay for species identification of
		bovine mastitis pathogens. J.
		Appl. Microbiol. 111 (6):1349-1356
		- Tsen, et al, 1994. Possible use of a
		polymerase chain reaction method for
		specific detection of <i>Salmonella</i> in
		beef. J. Ferment. Bioeng. 77:137–143.
		- Zhang et al, 2009. Simultaneous
		detection of <i>Listeria monocytogenes</i> ,
		Staphylococcus aureus.
		Salmonella enterica and Escherichia
		<i>coli</i> O157:h7 in food samples using
		multiplex PCR method. J. Food Safetv.
		29(3): 348-363
Detection of S. aureus, Salmonella. Listeria monocytogenes.	MOV-006	- Furrer et al, 1991. Detection and
and <i>E. coli</i> by Multiplex PCR Final Point on Surfaces.		identification of <i>Listeria</i>
Utensils, Handlers, Waters and Food		monocytogenes in cooked sausage
, ,		products and in milk by in vitro
		amplification of haemolysin gene

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Test	Test Method	<u>Reference Method(s)</u> ¹
		 fragments. J. Appl. Bacteriol. 70:372– 379 Shome, et al, 2011. Multiplex PCR assay for species identification of bovine mastitis pathogens. J. Appl. Microbiol. 111 (6):1349-1356 Tsen, et al, 1994. Possible use of a polymerase chain reaction method for specific detection of <i>Salmonella</i> in beef. J. Ferment. Bioeng. 77:137–143. Zhang et al, 2009. Simultaneous detection of <i>Listeria monocytogenes</i>, <i>Staphylococcus aureus</i>, <i>Salmonella enterica</i> and <i>Escherichia coli</i> O157:h7 in food samples using multiplex PCR method. J. Food Safety. 29(3): 348-363
Detection of <i>Salmonella</i> , and <i>Listeria monocytogenes</i> by Duplex PCR Final Point on Surfaces, Utensils, Handlers Waters and Food	MQV-008	 Furrer et al, 1991. Detection and identification of <i>Listeria</i> <i>monocytogenes</i> in cooked sausage products and in milk by in vitro amplification of haemolysin gene fragments. J. Appl. Bacteriol. 70:372– 379 Shome, et al, 2011. Multiplex PCR assay for species identification of bovine mastitis pathogens. J. Appl. Microbiol. 111 (6):1349-1356 Tsen, et al, 1994. Possible use of a polymerase chain reaction method for specific detection of <i>Salmonella</i> in beef. J. Ferment. Bioeng. 77:137–143. Zhang et al, 2009. Simultaneous detection of <i>Listeria monocytogenes</i>, <i>Staphylococcus aureus</i>, <i>Salmonella enterica</i> and <i>Escherichia coli</i> 0157:h7 in food samples using multiplex PCR method. J. Food Safety. 29(3): 348-363
Detection of SARS-CoV-2 by Reverse Transcription and PCR on Surfaces, Utensils, Handlers, and Food	MQV-004	 CDC 2019-Novel Coronavirus (2019-nCoV) Wang X, Zhou C, Tang K, Zhou Y and Li K. 2009. A rapid one-step multiplex RT-PCR assay for the simultaneous detection of five citrus viroids in China. European Journal Plant Pathology 124: 175-180. Sieburth PJ, Irey M, Garnsey SM and Owens RA. 2002. The use of RT-PCR

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Test	Test Method	<u>Reference Method(s)</u>¹
		in the Florida citrus viroid indexing
		program. Pp. 230-239. In: Duran Vila
		N, Milne RG, and da Grafa JV (eds.).
		Proceedings of the 15th IOCV
		Conference. Riverside, CA. 456p.
		- Corman, et al 2020. Detection of
		2019 novel coronavirus (2019-nCoV)
		by real-time RT-PCR. Euro Surveill 2020;25(3)
		- Jung et al, 2020. Comparative
		analysis of primer-probe sets for the
		laboratory confirmation of
		SARS-CoV-2.
		- Nalla et al, 2020. Compararive
		performance of SARS-CoV-2
		detection assays using seven different
		primer/probe sets and one assay kit. J
		Clin Microbiol 2020
		- Reina y Suarez, 2020. Evaluación de
		diferentes genes en la detección por
		RT-PCR del SARSCoV-2 en muestras
		respiratorias y su evolución en la
		infección. Rev Esp Quimioter. 2020;
		33(4): 292–293.
		- Lu et al, 2020. US CDC Real-Time
		Reverse Transcription PCR Panel for
		Detection of Severe Acute
		Respiratory Syndrome Coronavirus 2.
		Emerg Infect Dis. 2020;26(8):1654-
		1665.
SARS-CoV-2 by RT-qPCR on Surfaces, Utensils, Handlers	MQV-002	- CDC 2019-Novel Coronavirus
and Food		(2019-nCoV)
		- Corman, et al 2020. Detection of
		2019 novel coronavirus (2019-nCoV)
		by real-time RT-PCR. Euro
		Surveill 2020;25(3)
		- Elfiky AA. SARS-COV-2 RNA
		torgeting: on in cilico persoactivo.
		Diamol Struct Dynamics [intermet]
		2020 May 6 [citedo 4 jup
		2020 Way 0 [chau0 4 juii. 20201 [aprox 9 p]
		- Jung et al. 2020 Comparative
		analysis of primer-probe sets for the
		laboratory confirmation of
		SARS-CoV-2
		- Nalla et al 2020 Comparative
		performance of SARS-CoV-2
		detection assays using seven different

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		primer/probe sets and one assay kit. J
		Clin Microbiol 2020
		- Reina y Suarez, 2020. Evaluación de
		diferentes genes en la detección por
		respiratorias y su evolución en la
		infección Rey Esp Quimioter 2020:
		$33(4) \cdot 292_{-}293$
		- Lu et al. 2020. US CDC Real-Time
		Reverse Transcription PCR Panel for
		Detection of Severe Acute
		Respiratory Syndrome Coronavirus 2.
		Emerg Infect Dis. 2020;26(8):1654-
		1665.
		- Onoda M, Martínez Chamorro MJ;
		Grupo de Patología Infecciosa de la
		Asociación Espanola de Pediatria de
		diagnósticas de laboratorio de COVID-
		19 [internet] España: Sociedad
		Española de Pediatría de Atención
		Primaria; abr. 2020 [citado 4 jun.
		2020].
Petrifilm Enumeration	I	1
Aerobic Mesophiles in Food, Fruits, Vegetables, Juices,	MQM-009	AOAC 990.12
Meat, Dairy		
Products, Prepared Meals, Wines, Fat, Flour, Animal		
Colifornia and E coli in Food Empite Vagetables Most	MOM 014	A O A C 001 14 008 08
Dairy Products Prepared Meals Juices Wines Fat Flour	MQM-014	AOAC 991.14, 998.08
Animal Products and Feed		
Enterobacteria in Food, Fruits, Vegetables, Juices, Wines,	MOM-015	AQAC 2003.01
Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Fat,		
Flour, Animal Products, and Feed		
Mold and Yeast – Rapid Yeast and Mold Petrifilm [™] in	MQM-058	AFNOR 3M / 13-07-14
Food, Fruits,		
Vegetables, Juices, Wines, Fat, Meat, Dairy Products,		
Prepared Meal, Sugar, Eggs, Flour, Animal Products, Feed,		
Surfaces, Utensils, and Handlers		
Mold and Yeast in Food, Fruits, Vegetables, Juices, Wines,	MQM-046	AUAC 997.02
Fai, Meat, Dairy Products, Prepared Meal, Sugar, Eggs,		
Handlers		
S aureus in Food Emits Vegetables Juices Wines Fat	MOM-022	AOAC 2003 01 2003 08
Meat. Dairy Products. Prepared Meal Sugar Eggs Pastas	111211-022	10/10 2003.01, 2003.00
Flour, Animal Products, and Feed		
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Test	Test Method	<u>Reference Method(s)</u>¹
VIDAS Detection		
E.coli O157 in Food, Fruits, Vegetables, Juices, Wines, Fat,	MQM-002	AFNOR N° BIO 12/25-05/09
Meat, Dairy Products, Prepared Meal, Sugar, Eggs, Flour,		
Animal Products, Feed, Handlers, Surfaces, Utensils, and		
Water.		
<i>L. monocytogenes</i> – VIDAS in Food, Fruits, Vegetables,	MQM-004	AFNOR N° BIO 12-11-03/04
Juices, Wines, Fat, Meat, Flour, Animal Products, and Feed		
L. monocytogenes – VIDAS on Surfaces, and Utensils	MQM-032	AFNOR N° BIO 12-11-03/04
<i>Listeria</i> spp – VIDAS UP in Food, Fruits, Vegetables, Juices,	MQM-057	AFNOR N° BIO 12/33-05/12
Wines, Fat, Meat, Dairy Products, Prepared Meal, Eggs,		
Flour, Animal Products, and Feed on Handlers, Surfaces and		
Utensils		
L. monocytogenes – VIDAS XPRESS in Food, Fruits,	MQM-049	AFNOR N° BIO 12/27-02/10
Vegetables, Juices, Wines, Fat, Meat, Dairy Products,		
Prepared Meal, Sugar, Eggs, Flour, Animal Products, Feed,		
Surfaces, Utensils, and Handlers		
Salmonella – VIDAS in Food, Fruits, Vegetables, Juices,	MQM-008	AFNOR N° BIO 12/16/09/05
Wines, Fat, Meat, Dairy Products, Prepared Meal, Eggs,		
Flour, Animal Products, and Feed		
Salmonella – VIDAS on Handlers, Surfaces, and Utensils	MQM-034	AFNOR N° BIO 12/16/09/05

¹The reference methods associated with the accredited method of analysis relate only to surfaces, handlers, utensils, waters, and food matrices tests detailed in this document.

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Accredited Laboratory

A2LA has accredited

QUALIFIED SpA – SANTIAGO

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 13th of May 2021.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 3921.03 Valid to May 31, 2023

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