



INTERNATIONAL
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CERTIFICATE OF ACCREDITATION

This is to attest that

SGS CHILE LTDA., SOCIEDAD DE CONTROL

RUTA 5 SUR, KM 1013
PUERTO VARAS, 5550000, REPUBLIC OF CHILE

Testing Laboratory TL-876

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiration Date January 1, 2026

Effective Date May 3, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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SGS CHILE LTDA., SOCIEDAD DE CONTROL

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Accredited to ISO/IEC 17025:2017

Effective Date May 3, 2024

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
CHEMISTRY- Food	Foods	Total dietary fiber	AOAC 991.43 Semi-automatic Ankom equipment Enzymatic-Gravimetric Method
		Soluble and insoluble fiber	AOAC 991.43 Semi-automatic Ankom equipment Enzymatic-Gravimetric Method
		Sodium	I-CTS-LAB-602 Based on NCh 3545:2018; AOAC Official Method 985.35; 969.23 y 968.08 Atomic Absorption Spectrophotometric Method
		Sugars profile	I-CTS-LAB-360 Based on AOAC 977.20 y 982.14 HPLC
		Moisture	NCh841:2018 Gravimetric Method
	Foods and animal feed	Amino acid profile	I-CTS-LAB-370 based on AOAC 999.13 and AOAC 994.12 HPLC
		Protein	AOAC 2001.11 Digestion Method
	Seafoods	Tetracyclines; 4-epiOxytetracycline, 4-EpiChlortetracycline, 4-EpiTetracycline	I-CTS-LAB-327 Determination of oxytetracyclines and quinolones in salmon LC-MSMS
		Lufenuron	I-CTS-LAB-351 Based on YAR-12-060. Analytical Method- NovAhstar LC-MSMS

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
CHEMISTRY- Food (cont'd.)	Seafoods (cont'd.)	Hexaflumuron	I-CTS-LAB-372 Based on. SGS Cephac Europe Reference N° CP 155379 Determination of Hexaflumuron in fish muscle with skin. Development and validation of LC/MS/MS Method
	Seafoods and Fishmeal	TBVN (Total Basic Volatile Nitrogen)	NCh2668.Of2018 Determination of Total Basic Volatile Nitrogen (TBVN) Distillation and volumetric Method
	Animal Feed and Fishmeal	Soluble Protein	AOAC 923.04 Digestion Method
		Lufenuron	I-CTS-LAB-392 Determination of Lufenuron (CGA 184699) in medicated feed containing AH-2178 10% Premix (Type c medicated feed) by HPLC, ATG 276/4
	Seafoods, animal feed and Oils	Tocopherols	I-CTS-LAB-373 Based on ISO 9936:2016. SGS INO-ME-44 HPLC-Fluorescence
	Seafoods, Salmon muscle and skin.	Determination of Dyes: Crystal Violet, Leuco Crystal Violet, Malachite Green, Leuco Malachite Green and Brilliant Green	I-CTS-LAB-381 Based on: Multiresidues method for the triphenylmethane dyes in fish: Malaquite green, crystal (gentian) violet, and brilliant green. W. Anderson, S. Turnipseed, C. Karbiwnyk, R. Lee, D. Rowe, M. Madson, K. Miller. Analytica Chimica Acta 637 (2009) 279-289.
	Hydrobiological Product, Seafoods, Fish Meal and Oils (Human and Non-Human Consumption) Animal Feed	Arsenic	I-CTS-LAB-604 Ed00 Based on: USDA CLG-ARS.05
		Cadmium, Chromium, Lead	I-CTS-LAB-610 Ed00 Based on: AOAC 968.08, AOAC 972.23, NCh 2638, NCh 2751.
		Mercury	I-CTS-LAB-601 Ed00 Based on: AOAC 977.15
	Food in general, Hydrobiological Product and canned food	pH measurement	Hydrobiological Products – pH Value

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CHEMISTRY- Food (cont'd.)	Food in general, Hydrobiological Product and canned food (cont'd.)	Determination of Potassium (K), Calcium (Ca)	I-CTS-LAB-602 Based on NCh 3545:2018; AOAC Official Method 985.35; 969.23 and 968.08 Atomic Absorption Spectrophotometric Method
MICROBIOLOGY- Food	Foods, seafoods and environmental samples (swabs, surfaces, sponges)	Detection of <i>Listeria monocytogenes</i>	Gene Up General protocol for <i>Listeria monocytogenes</i> PCR Method
		Detection of <i>Salmonella</i> spp	Gene Up General protocol for <i>Salmonella</i> spp PCR Method
	Hydrobiological and food	Determination of Total Coliforms	NCh 2635/2 of. 2001 Determination of Total Coliforms in hydrobiological product and food
	Fish oil	Determination of <i>Enterobacteria</i>	I-CTS-LAB-110 based on NCh 2676. Of2002 Colony-count technique
	Foods, fish oil and Fishmeal	Determination of <i>Clostridium perfringens</i>	FDA/ Bacteriological Analytical Manual. Online 2001, Capítulo 16 Colony-count technique
	Fishmeal, fish oil, Hydrobiological Product and environmental samples (swabs, surfaces, sponges)	Detection of <i>Salmonella</i> spp	Vidas <i>Salmonella</i> (SLM) AFNOR validation N°BIO 1 2/1 6-09/05 Vidas SLM method
	Hydrobiological Product	Detection of <i>Listeria monocytogenes</i>	Vidas <i>Listeria monocytogenes</i> AFNOR validation N°BIO 1 2/1 1-03/04 Vidas <i>Listeria monocytogenes</i> II (LMO2) method
	Hydrobiological Product and Fish Oils	Detection of <i>Shigella</i> spp.	ISO 21567:2004 Microbiology of food and animal feeding stuffs - Horizontal method for the detection of <i>Shigella</i> spp.
	Hydrobiological Product	Detection of <i>Vibrio parahaemolyticus</i>	ISO 21872-1:2017/Amd 1:2023 Horizontal method for the determination of <i>Vibrio</i> spp. Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>

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MICROBIOLOGY- Food (cont'd.)	Environmental samples (swabs, surfaces, sponges)	Detection of <i>Listeria monocytogenes</i>	Vidas <i>Listeria monocytogenes</i> AFNOR validation N°BIO 1 2/1 1-03/04 Vidas <i>Listeria monocytogenes</i> II (LMO2) method
		Detection of <i>Aspergillus</i>	I-CTS-LAB-121 based on NCh 2735. Of2002
		Determination of <i>Escherichia coli</i>	I -CTS-LAB-121 based on FDA / Bacteriological Analytical Manual Online 2020, Chapter 4 colony- count technique

