

### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### WORLD SURVEY SERVICES S.A. Junge #142, Concepción CHILE

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#### **CHEMICAL**

Valid To: September 30, 2021 Certificate Number: 5166.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>fishmeal</u>, <u>fish oil</u>, <u>fish feed</u>, <u>hydrobiological products</u>, <u>and dried animal feed:</u>

<u>Test</u>	Test Method(s)	Reference Method(s)
Determination of Antioxidants: BHA, BHT, TBHQ – HPLC	INS-LAQ-052	AOAC 983.15
Determination of Arsenic/Flame – AA Spectrometry Hydride Generation	INS-LAQ-043	NCh 3140 of 2008
Determination of Cadmium/Flame – AA Spectrometry	INS-LAQ-044	NCh 2638 of 2001
Determination of Chlorides – Volhard Method	INS-LAQ-029	NCh 2739-1 of 2002
Determination of Chrome/Flame – AA Spectrometry	INS-LAQ-045	NCh 2751 of 2003
Determination of Crude Protein – Kjeldahl Method	INS-LAQ-015	ISO 5983-2:2009
Determination of Ethoxyquin – HPLC	INS-LAQ-041	AOAC 996.13
Determination of Free Fatty Acids – Titrimetric Method	INS-LAQ-018	NCh 2759 of 2002
Determination of Histamine – HPLC	INS-LAQ-039	NCh 2637 of 2001
Determination of Humidity and Impurities in Dried Seaweed – Gravimetric Method	INS-LAQ-056	NCh 765 of 2018
Determination of Lead/Flame – AA Spectrometry	INS-LAQ-046	NCh 2751 of 2003
Determination of Mercury – AA Spectrometry Cold Vapor	INS-LAQ-047	NCh 2667 of 2001
Determination of Moisture – Gravimetric Method	INS-LAQ-001	NCh 2670 of 2001, Method A

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<u>Test</u>	Test Method(s)	Reference Method(s)
Determination of pH	INS-LAQ-051	NCh 2738 of 2002
Determination of Total Ash and Insoluble Residue in Sand – Gravimetric Method	INS-LAQ-023	NCh 515 of 1980
Determination of Total Fat – Soxhlet Method	INS-LAQ-033	NCh 1790 of 80; NCh 514 of 1980
Determination of Total Volatile Basic Nitrogen – Steam Distillation	INS-LAQ-036	NCh 2668 of 2018
Peroxide Index – Titrimetric Method	INS-LAQ-026	NCh 2758 of 2002
Sampling Fishmeal Fish Oil Hydrobiological Products	PRO-IYM-009 PRO-IYM-003 PRO-IYM-008	Manual de Inocuidad y Certificación, Parte II, Sección IV, Capítulo II, SERNAPESCA; NCh 43 of 1961
Tocopherols – HPLC	INS-LAQ-040	AOCS Ce 8-89



# **Accredited Laboratory**

A2LA has accredited

## **WORLD SURVEY SERVICES S.A.**

Concepción, CHILE

for technical competence in the field of

## **Chemical 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).

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Presented this 25th of November 2019.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 5166.02

Valid to September 30, 2021