

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

QUALIFIED SPA - CONCEPCION

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CHEMICAL

Valid To: January 31, 2024 Certificate Number: 3921.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>animal products meal, feed material and additives, meat, meat products, fats and oils, feed, meal, flour, bread, pasta, fruits and vegetables (dry/fresh and transformed), muscle, fish and hydrobiological products:</u>

Test(s)	Test Method	
GC Chromatography		
Fatty Acid Profile in Food, Oil, Processed Food and Raw Materials by GC-FID	MQC-007	
Gravimetric Tests		
Anisidine Value in Animal and Vegetable Fat and Oil	MQQ-003	
Ash in Animal Meal, and Animal Feed Raw Material	MQQ-006	
Ash in Food, Wines, Dry/Fresh Fruits and Vegetables and Food Products	MQQ-016	
Crude Fiber in Food, Dry/Fresh Fruits and Vegetables and Food Products	MQQ-011	
Energy by Difference in Food, Wines, Dry/Fresh Fruits and Vegetables, and Food Products by Calculation	MQQ-043	
Fat in Animal Meal, and Animal Feed Raw Material	MQQ-008	
Fat in Cheese	MQQ-022	
Fat in Dairy Products	MQQ-021	
Fat in Flour, and Farinaceous Food	MQQ-023	
Fat in Food	MQQ-041	
Fat in Food with High Fat Content	MQQ-020	
Impurities in Oils and Fats	MQQ-047	
Moisture in Animal Meal, and Animal Feed Raw Material	MQQ-005	
Moisture in Food, Dry/Fresh Fruits and Vegetables, and Food Products	MQQ-014	
Moisture in Hydrobiological Products	MQQ-024	
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(A2LA Cert. No. 3921.01) 02/16/2022

Page 1 of 4

<u>Test(s)</u>	Test Method
Gravimetric Tests (cont.)	
Non-Nitrogenous Extract in Food, Wines, Dry/Fresh Fruits and Vegetables, and Food Products by Calculation	MQQ-044
Oxidative rancidity in Animal and Vegetable Fat and Oil	MQQ-102
Total and Available Carbohydrates in Food, Wines, Dry/Fresh Fruits and Vegetables, and Food Products by Calculation	MQQ-045
HPLC Chromatography	
Amino Acids: Alanine, Arginine, Aspartic Acid, Glutamic Acid, Glycine, Histidine, Hydroxyproline, Isoleucine, Leucine, Lysine, Methionine, Phenylalanine, Proline, Serina, Taurine, Threonine, Tyrosine, Valine in Compound Feed, Processed Animal Protein Meal, Fish Muscle, Shrimp, Food, Wines, Dry/Fresh and Transformed Fruits and Vegetables and Feed Additives, Meal of animal origin and Pellets (animal feed)	MQC-012
Antioxidants: BHA, BHT, TBHQ, Propyl Gallate in Food, Vegetable and Fish Oil, Compound Feed, Processed Animal Protein Meal, Fish Muscle, Meal of Animal Origin and Pellets (Animal Feed)	MQC-017
Biogenic Amines: Cadaverine, Histamine, Putrescine in Compound Feed, Processed Animal Protein Meal, Fish Muscle, Meal of Animal Origin and Pellets (Animal Feed)	MQC-004
Ethoxyquin dimer in Food, Seafood Products and Meal, Vegetable and Fish Oil, Compound Feed, Processed Animal Protein Meal, Fish Muscle, Meal of Animal Origin and Pellets (animal feed) by FLD	MQC-006
Ethoxyquin Residues in Food, Seafood Products and Meal, Vegetable and Fish Oil, Compound Feed, Processed Animal Protein Meal, Fish Muscle, Meal of Animal Origin and Pellets (Animal Feed) by FLD and PDA	MQC-006
Florfenicol in Fish Food	MQC-014
Free Astaxanthin in Animal Feed, Fish Feed and Fish Muscle	MQC-016
Vitamins A, D2 and D3 in Food, Compound Feed, Vitamin Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables and Feed Additives	MQC-020
Vitamin C in Food, Compound Feed, Vitamin Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables, Feed Additives, Meal of Animal Origin and Pellets (Animal Feed)	MQC-019
Vitamins E in Food, Compound Feed, Vitamin Premixes, Fish Muscle, Food, Dry/Fresh and Transformed Fruits and Vegetables, and Feed Additives	MQC-041

<u>Test(s)</u>	Test Method
Potentiometric Methods	
Conductivity in Drinking, Continental, and Utility Waters.	MQQ-085 based on SM 2510B
pH in Drinking Waters	ME-29-2007
pH in Drinking, Continental, and Utility Waters	MQQ-055 based on SM 4500 H ⁺ B
Spectrophotometry	
Delta K Value in Oils and Fats	MQQ-048
Residual Free Chlorine in Drinking, Continental, and Utility Waters	MQQ-051
Turbidity in Drinking Waters	ME-03-2007
Turbidity in Drinking, Continental, and Utility Waters	MQQ-050 based on SM 2130B
UPLC MS-MS Chromatography	
Antibiotics:	
Antibiotic Residues: Abamectin, Ac. Oxolinic, Chloramphenicol, Ciprofloxacin, Diflubenzuron, Emamectin Benzoate, Enrofloxacin, Erythromycin, Florfenicol, Flumequin, Ivermectin, Sarafloxacin, Spiramycin, Sulfachinoxacin, Sulfachlorpyridazine, Sulfadimethoxine, Sulfadoxine, Sulfamerazin, Sulfamethazine, Sulfamethoxazole, Teflubenzuron, Trimethoprim, Tylosin in Compound Feed, Fish Muscle, Processed Animal Protein Meal, Shrimp, Food, Dairy Products, Meal of Animal Origin and Pellets (Animal Feed)	MQC-008
Coccidiostats: Decoquinate, Diclazuril, Halofuginone, Lasalocid, Maduramycin, Monensin, Narazin, Nicarbazin, Robenidine, Salinomycin in Raw Materials of Animal Origin, Compound Feed, Fish Muscle, Processed Animal Protein Meal, Food, Shrimp, Meal of Animal Origin and Pellets (Animal Feed)	MQC-010
Nitrofuran in Animal Tissue, Raw Materials of Animal Origin, Compound Feed, Fish Muscle, Processed Animal Protein Meal, Food, shrimp, Meal of Animal Origin and Pellets (Animal Feed)	MQC-009
Tetracyclines in Raw Materials of Animal Origin, Compound Feed, Fish Muscle, Processed Animal Protein Meal, Food, Shrimp, Meal of Animal Origin and Pellets (Animal Feed)	MQC-002
Trace Amounts in Commercial Pharmaceuticals Products: Abamectin, Ac. Oxolinic, Bright Green, Chloramphenicol, Ciprofloxacin, Crystal Violet, Diflubenzuron, Emamectin Benzoate, Enrofloxacin, Erythromycin, Florfenicol, Flumequin, Ivermectin, Leuco Crystal Violet, Leuco Malachite Green, Malachite Green, Oxytetracycline, Sarafloxacin, Spiramycin, Teflubenzuron, Trimethoprim, Tylosin	MQC-018

Test(s)	Test Method	
UPLC MS-MS Chromatography (cont.)		
Colorants:		
Brilliant Green, Crystal Violet, Leuco Crystal Violet, Leuco Malachite Green, Malachite Green in Compound Feed, Fish Muscle, Processed Animal Protein Meal, and Shrimp, Meal of Animal Origin and Pellets (Animal Feed)	MQC- 005	
Toxins:		
Mycotoxins: Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Aflatoxin M1, Deoxynivalenol, Fumonisin B1, Fumonisin B2, Ochratoxin A, Patulin, T2, Zearalenone in Processed Animal Protein Meal, Wheat and Flour Meal, Whole Grains, Vegetable Seeds, Processed Vegetable Protein, Food, Dry/Fresh and Transformed Fruits and Vegetables, Wines, Oil, Coffee, Meal of Animal Origin and Pellets (Animal Feed)	MQC-013	
Volumetric Tests		
Free Fatty Acids in Crude and Refined Vegetable Oils, Marine Oils, Animal Oils and Vegetable or Animal Fats.	MQQ-002	
Peroxide in Fats and Oils of Vegetable and Animal Origin, Including Margarine and Spreads of Different Water Content	MQQ-001	
pH in Food and Hydrobiological Products	MQQ-039	
Phosphorus in Food, Wines, Dry/Fresh and Transformed Fruits and Vegetables, and Feed Additives	MQQ-018	
Phosphorus in Meat and Meat Products	MQQ-019	
Protein (Kjeldahl) in Food, Wines, Dry/Fresh Fruits and Vegetables, Food Products, Meal of Animal Origin and Pellets (Animal Feed)	MQQ-004	
Total Sugar in Food, Dry/Fresh Fruits and Vegetables and Food Products	MQQ-010	
Volatile Total Nitrogen (BNTV) in Hydrobiological Products	MQQ-040	
Other		
Crude Fiber in Food, Dry/Fresh Fruits and Vegetables, and Food Products by Fiber Digester Equipment W. Reichmann (Gerhardt)	MQQ-009	



Accredited Laboratory

A2LA has accredited

QUALIFIED SPA - CONCEPCIÓN

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 15th day of February 2022.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 3921.01

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