



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CHEMICAL

Valid To: October 31, 2021

Certificate Number: 2102.02

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with the A2LA Food Testing Program Requirements, containing “2018 AOAC *International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food, Dietary Supplements, and Pharmaceuticals*”), accreditation is granted to this laboratory to perform the following tests on food products:

<u>Test</u>	<u>Reference Method(s)</u>	<u>Internal Method</u>
Acidity (Volumetric)		
Condiments	AOAC 942.15	SEF-AC
Fruit	AOAC 942.15	
Milk	AOAC 947.05	
Roasted Coffee	AOAC 920.92	
Sauces and Dressings	AOAC 935.57	
Vegetables	AOAC 925.53	
Wines	AOAC 962.12	
Ash (Gravimetric)		
Animal Feeds	AOAC 942.05	SEF-C
Bread	AOAC 930.22	
Cereal Grains	AOAC 923.03	
Cheese	AOAC 935.42	
Cream	AOAC 920.108	
Dried Milk	AOAC 930.30	
Fish	AOAC 938.08	
Flour	AOAC 923.03	
Macaroni	AOAC 925.11A	
Meat and Meat Products	AOAC 920.153	
Milk	AOAC 945.46	
Roasted Coffee	AOAC 920.93	
Tea	AOAC 920.100	
Vegetables	AOAC 925.51	
Caffeine (HPLC)		
Coffee, Energy Drinks, and Tea	INEN-ISO 20481	SEIN-CAF

Test	Reference Method(s)	Internal Method
Cholesterol (CG-FID)		
Foods	AOAC 994.10	SEIN-CL1
Crude Fat (Gravimetric)		
Animal Feed	AOAC 920.39; AOAC 954.02	SEF-G
Cereal Grains	AOAC 920.85; AOAC 945.38	
Condiments	ISO 1108	
Meat and Meat Products	AOAC 991.36	
Sauces and Dressings	AOAC 950.54	
Digestibility in Pepsin (Gravimetric)		
Animal Food	AOAC 971.09	SEF-PEP
Fat (Gravimetric-Hydrolysis)		
Cheese	AOAC 933.05	SEF-G
Chocolates and Cocoa Derivatives	AOAC 999.11	
Cream	AOAC 995.19	
Flour	AOAC 922.06	
Macaroni	AOAC 925.12	
Milk	AOAC 989.05	
Lactose (HPLC)		
Milk and Derivatives	AOAC 984.22	SEIN-LAC
Lipidic Profile (CG-FID)		
Monounsaturated Fat (CG-FID) – Foods	AOAC 963.22	SEIN-PL1
Polyunsaturated Fat (CG-FID) – Foods		
Saturated Fat (CG-FID) – Foods		
Methanol (CG-FID)		
Alcoholic Drinks	INEN 2014; AOAC 968.09	SEIN-ALC
Minerals		
Arsenic (AA-Flame, Generation of Hydrides) – Chocolate and Cocoa Derivatives	AOAC 999.11	SEIN-MIN
Cadmium (AA-Flame, Graphite Oven) – Chocolates and Cocoa Derivatives		
Calcium (AA-Flame) – Milk and Milk Products		
Copper (AA-Flame) – Chocolates and Cocoa Derivatives		
Iron (AA-Flame) – Foods		
Lead (AA-Flame, Graphite Oven) - Foods		
Sodium (AA-Flame) – Foods		

<u>Test</u>	<u>Reference Method(s)</u>	<u>Internal Method</u>
Moisture (Gravimetric)		
Animal Feed	AOAC 934.01	SEF-H
Butter	AOAC 920.116	
Cereal Grains	AOAC 925.09	
Cheese	AOAC 926.08	
Condiments	AOAC 925.55	
Dried Milk	AOAC 927.05	
Flour	AOAC 925.10	
Meat and Meat Products	AOAC 950.46A	
Roasted Coffee	AOAC 979.12	
Sauces and Dressings	AOAC 920.116	
Tea	AOAC 925.19	
Nitrogen (Kjeldahl)		
Animal Feed, Forage, Grain, Oil, Seeds	AOAC 2001.11	SEF-P
Cheese	AOAC 920.123	
Seafood	AOAC 940.25	
Meat and Meat Products	AOAC 928.08	
pH (Electrometric)		
Acidified Foods	AOAC 981.12	SEF-pH
Bread	AOAC 945.42	
Condiments	AOAC 943.02	
Flour	AOAC 943.02	
Macaroni	AOAC 940.23	
Sauces and Dressings	AOAC 981.12	
Wines	AOAC 960.19	
Preservatives, Sorbates, and Benzoates (HPLC)		
Bakery Products	REF. BIBLIOGRAFICA	SEIN-CON
Protein, Dumas (Incineration)		
Animal Food	AOAC 990.03	SEF-PDU
Cereals and Derivatives (Flours, Noodles, Snacks)		
Fish and Marine Products		
Grains and Derivatives		
Meat and Meat Products		
Milk and Derivatives (Cheese, Milk Powder)		
Protein (Kjeldahl)		
Animal Feed, Forage, Grain, Oil, Seeds	AOAC 2001.11	SEF-P
Bread	AOAC 950.36	
Cereal Grains	AOAC 979.09A	
Dried Milk	AOAC 930.29	
Flour	AOAC 2001.11; AOAC 920.87	
Macaroni	AOAC 930.25	
Milk	AOAC 991.20	
Tea	AOAC 920.103	

Test	Reference Method(s)	Internal Method
Serum (HPLC)		
Milk and Derivatives	INEN 2401	SEF-SUL
Sodium Chloride (Volumetric)		
Condiments	INEN 383	SEF-CL
Sauces and Dressings		
Superior Alcohols (CG-FID)		
Alcoholic Drinks	INEN 2014; AOAC 968.09	SEIN-ALC
Total Dietary Fiber (Gravimetric)		
Foods	AOAC 985.29	SEF-FD
Total Solids (Gravimetric)		
Milk and Milk Products	INEN 14	SEF-ST
Total Sugar (HPLC)		
Foods	AOAC 977.20	SEIN-AZU
Vitamin A (HPLC)		
Foods	AOAC 2011.13	SEF-VIA
Vitamin B1, B2 B3, B9 (HPLC)		
Drugs	AOAC 953.17	SEIN-VBI, B2
Foods		
Vitamin B5, B6 (HPLC)		
Drugs	AOAC 2012.16	SEIN-VB3, B5, V6
Nutritional Supplements		
Vitamin B12 (HPLC)		
Drugs	AOAC 2012.10	SEIN-VB12
Vitamin C (HPLC)		
Foods	AOAC 2012.22	SEIN-VIC
Vitamin C (Volumetric)		
Foods	AOAC 967.21	SEF-VIC
Vitamin E (HPLC)		
Foods	AOAC 2012.10	SEIN-VIE



Accredited Laboratory

A2LA has accredited

SEIDLABORATORY CIA. LTDA.

Quito, ECUADOR

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 laboratory also meets the requirements of A2LA R204 – *Specific Requirements – Food and Pharmaceutical Testing Laboratory Accreditation Program*. 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 5th day of November 2019.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2102.02
Valid to October 31, 2021

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