Accredited Laboratory

A2LA has accredited

EMSL ANALYTICAL, INC.

Cinnaminson, NJ

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 August 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2845.15
Valid to July 31, 2024

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL ANALYTICAL, INC.
200 Route 130 North
Cinnaminson, NJ 08077
Nicholas Straccione Phone: 856 303 2550

CHEMICAL

Valid To: July 31, 2024 Certificate Number: 2845.15

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, Food Products, Feeds, Food Additives, Beverages, and Environmental Samples:

Internal Procedure	Test	Test Method(s)
FC-SOP-53	Alcohol Content in Beverages via Distillation	AOAC 920.57 AOAC 982.10
FC-SOP-04	Ash	AOAC 923.03
FC-SOP-56	Calcium, Copper, Iron, Magnesium, Manganese, Potassium, Phosphorus, Sodium and Zinc in Food Products	AOAC 2011.14
FC-SOP-02	Calories and Carbohydrates by Calculation	21 CFR Part 101 SubPart A Sec 101.9
FC-SOP-05	Cholesterol in Foods	AOAC 994.10
FC-SOP-06	Crude Fats in Food Products	AOAC 932.06 AOAC 963.15 AOAC 922.06 AOAC 989.05 AOAC 991.36 AOAC 2003.05
FC-SOP-21	Crude Fiber in Pet Food	AOAC 962.09
FC-SOP-54	Determination of Oil/Fat	AOCS Am 5-04
FC-SOP-52	Alcohol in Beverages and Food	AOAC 984.14
FC-SOP-55	Ethanol, Isopropanol, and Methanol in Hand Sanitizer	USP 611
FC-SOP-13	Fatty Acid Profile	AOAC 996.06
FC-SOP-51	Heavy Metals in Food Products	AOAC 2011.19 Journal of AOAC Vol 90, No 3. (2007) AOAC 2013.06
FC-SOP-10	Moisture by Convection Oven	AOAC 931.04 AOAC 950.46 AOAC 952.08 AOAC 990.19

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

Internal Procedure	Test	Test Methods
FC-SOP-11	Moisture by Vacuum Oven	AOAC 920.151 AOAC 925.19 AOAC 926.08 AOAC 925.30 AOAC 960.13 AOAC 925.40 AOAC 934.01 AOAC 925.09
FC-SOP-16	pH of Foods	AOAC 920.49 AOAC 943.02 AOAC 945.10 AOAC 945.27 AOAC 970.21 AOAC 981.12
FC-SOP-01	Protein by Combustion	AOAC 968.06 AOAC 992.15 AOAC 992.23 AOAC 993.13
FC-SOP-18	Protein by Kjeldahl	AOAC 991.20
FC-SOP-19	Salt	AOAC 971.27
FC-SOP-08	Sugars by HPLC	AOAC 982.14
FC-SOP-12	Total Dietary Fiber, Soluble Dietary Fiber, and Insoluble Dietary Fiber	AOAC 991.43
FC-SOP-07A	Vitamin A by HPLC	AOAC 2001.13 (Modified)
FC-SOP-41	Vitamin C in Food Items	Journal of Chromatography, (1995), 355-357, 667 Methods of Nutritional Biochemistry, (1993) pages 184-190
FC-SOP-42	Vitamin D in Foods	AOAC 2011.11
FC-SOP-17	Water Activity of Foods	AOAC 978.18

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of Metals, Powdered Metals, Consumer Products Tests, and Brake Friction Material:

Internal Procedure	Test	Test Method(s)
LM-022	Acid Digestion of Sediments, Sludges, and Soils	SAE J2975, SW-846 3050B
WC-034	Alkaline Digestion for Hexavalent Chromium	SAE J2975, SW-846 3060A
MS-SOP-400-1	Carbon and Sulfur by Combustion (LECO)	ASTM E1019 ASTM E1941
MS-SOP-803-1	Explosion Severity/Go-No Go	ASTM E1226
WC-034	Hexavalent Chromium	SAE J2975, SW-846 7196A

Internal Procedure	Test/Technology	Test Method(s)
MS-SOP-403-2	ICP-MS Ag, Al, B, Bi, Co, Cr, Cu, Fe, Ga, Mg, Mo, Nb, Ni, P, Pb, S, Sb, Si, Sn, Ti, Tl, W, V	ASTM E2823-Mod
MS-SOP-404-2	ICP-OES Ag, Al, B, Bi, Cd, Co, Cr, Cu, Fe, Ga, Mg, Mo, Nb, Ni, P, Pb, S, Sb, Si, Sn, Ti, Tl, W, V, Zn	ASTM E2823-Mod SW EPA 6010D
MS-SOP-804-1	Layer Ignition Temperature	ASTM E2021
LM-012A	Mercury (Hg)	SAE J2975, SW-846 7471B
LM-016A	Microwave Digestion for Metals in Soils and Solids	SAE J2975, SW-846 3051A
MS-SOP-801-1	Minimum Explosion Concentration	ASTM E1515
MS-SOP-802-1	Minimum Ignition Energy	ASTM E2019
MS-SOP-800-1	Minimum Ignition Temperature (Dust Cloud)	ASTM E1491
MS-SOP-402-1	Optical Emission Spectrochemical (OES) Analysis (Steel: Ni alloys, Al alloys) Ag, Al, Ba, C, Ca, Cd, Cl, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, N, Na, Ni, O, P, Pb, S, Sb, Si, Sn, Ti, V, W, Zn, Zr	ASTM A751 ASTM E227 ASTM E415 ASTM E1086 ASTM E1251 ASTM E1999
----------	Sample Preparation by Drilling	SAE J2975
MS-SOP-R2	Total Organic Carbon in Water and Wastewater; Persulfate Oxidation Method	SM 5310C
MS-01-1	X-Ray Diffraction (XRD)	----------
MS-SOP-401-1	X-Ray Fluorescence (XRF) Spectrochemical Analysis Ag, Al, As, Br, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ti, V, Zn	ASTM A751 ASTM E322 ASTM E1621 ASTM E1085