



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EUROFINS FOOD CHEMISTRY TESTING US, INC.  
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Battle Creek, MI 49017  
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CHEMICAL

Valid to: August 31, 2019

Certificate Number: 2918.03

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 the 2015 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 and dietary supplements:

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-ASHM	Ash	AOAC 923.03 (Modified)
MP-ICP	Ca, Cu, Fe, K, Mg, Mn, Na, P, and Zn by ICP	AOAC: 984.27, 985.01 2011.14 (Modified)
MP-SALT	Chloride	AOAC: 963.05, 971.27, 986.26 (Modified)
MP-CHOK	Cholesterol	AOAC 994.10 (Modified)
MP-FAT_AH	Fat by Acid Hydrolysis	AOAC: 922.06, 954.02, 925.32, 933.05 (Modified)
MP-FAT_BH	Fat by Alkaline Hydrolysis	AOAC 989.05, 986.25, 945.48B (Modified)
MP-FAME	Fatty Acid Methyl Esters	AOAC 996.06, AOCS: Ce2-66, Ce 2b-11, Ce 1h-05, Ce 1j-07 (Modified)
MP-FSOX	Fat-Soxhlet Extraction	AOAC 960.39, 948.22 (Modified)
MP-ISDF	Fiber, Soluble, Insoluble, Total Dietary (Lee)	AOAC 991.43 (Modified)
MP-SFLC	Fibersol by HPLC	AOAC 2001.03 (Modified)

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-FOSR	Fructooligosaccharides by HPAEC with PAD	AOAC 997.08 (Modified)  Stöber, P., Bénet, S., and Hischenhuber, C., "Simplified Enzymatic High-Performance Anion Exchange Chromatographic Determination of Total Fructans in Food and Pet Food—Limitations and Measurement Uncertainty," Journal of Agricultural and Food Chemistry, 52 (Modified)(8):2137-2146 (2004).
MP-TDFM	Insoluble, Soluble and Total Dietary Fiber (Codex Definition)	AOAC 2009.01, 2011.25 (Modified)
MP-M60_T60	Moisture	AOAC: 925.45 (Modified)
MP-M70-T70	Moisture	AOAC: 934.06 (Modified)
MP-M100-T100	Moisture	AOAC: 925.09, 926.08 (Modified)
MP-M70_KLLL-MA	Moisture	Client Supplied Method
MP-M130-MA	Moisture, Convection Oven	AOAC 925.10 (Modified)
MP-MUDA	Moisture in Meat	AOAC 950.46 (Modified)
MP-PVFF	Peroxide Value	AOAC 965.33, 983.23 (Modified)  USP <401> (Modified)  United States Pharmacopeia, 37 <sup>th</sup> Rev., "Preparation and Standardization", Volumetric Solutions, USP Convention, Rockville, MD, p. 1460-1461, (2014) (Modified)
MP-PHAL	pH	AOAC: 981.12 (Modified); FCC <Appendix II> (Modified); USP <791> (Modified)
MP-DGEN	Protein, Combustion	AOAC: 968.06, 992.15 (Modified)
MP-SGLC	Sugar by HPLC	AOAC 982.14 (Modified)



<u>Method Procedure</u>	<u>Test and Technology</u>	<u>References</u>
MP-SUGN	Sugar Profile by GC	Mason, B. S., and Stover, H. T., "A Gas Chromatographic Method for the Determination of Sugars in Foods," Journal of Agriculture and Food Chemistry, 19(3):551-554 (1971)  Brobst, K. M., "Gas-Liquid Chromatography of Trimethylsilyl Derivatives", Methods in Carbohydrate Chemistry, 6:3-8, Academic Press, New York, NY (1972)
MP-SGIC_2	Sugar Profile by High Performance Anion Exchange Chromatography with Pulsed Amperometric Detection	Ellingson, D., Anderson, P., Berg, D., "Analytical Method for Sugar Profile in Pet Food and Animal Feeds by High- Performance Anion-Exchange Chromatography with Pulsed Amperometric Detection", Journal of AOAC INTERNATIONAL 99 (2): 342-352 (2016) (modified)
MP-SGIC	Sugar Profile by IC	Analysis of Carbohydrates by High-Performance Anion-Exchange Chromatography with Pulsed Amperometric Detections HPAEC_PAD)
MP-TDF-MA	Total Dietary Fiber (Prosky)	AOAC 985.29 (Modified)
MP-VALC	Vitamin A (Retinol) by HPLC	AOAC: 2001.13, 992.04, 992.06 (Modified)
MP-LCAT-MA	Vitamin E by HPLC	Speek, A.J., Schijver, J., and Schreurs, W.H.P. 1985. Vitamin E Composition of Some Seed Oils as Determined by High- Performance Liquid Chromatography with Fluorometric Detection. Journal of Food Science, 50: 121-124(Modified)  Cort, W.M., Vincente, T.S., Waysek, E.H., and Williams, B.D. 1983. Vitamin E Content of Feedstuffs Determined by High-Performance Liquid Chromatographic Fluorescence. Journal of Agricultural Food Chemistry, 31: 1330-1333 (Modified)  McMurray, C.H., Blanchflower, W.J., and Rice D.A. 1980. Influence of Extraction Techniques on Determination of $\alpha$ - Tocopherol in Animal Feedstuffs. Journal of the Association of Official Analytical Chemists, 63: 1258-1261 (Modified)
MP-WACT	Water Activity by Chilled - Mirror Dew Point	AOAC 978.18 (Modified)



<b><u>Abbreviations used in References</u></b>	
AOAC	AOAC International (Association of Analytical Communities)
AOCS	American Oil Chemists' Society
FCC	Food Chemicals Codex
USP	U.S. Pharmacopeia





## Accredited Laboratory

A2LA has accredited

# EUROFINS FOOD CHEMISTRY TESTING US, INC.

*Battle Creek, MI*

for technical competence in the field of

## Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009*).



Presented this 31<sup>st</sup> day of October 2017.

A handwritten signature in black ink, appearing to read "L. Sen", written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 2918.03  
Valid to August 31, 2019  
Revised August 6, 2018

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