



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EUROFINS FOOD CHEMISTRY TESTING US, INC.  
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CHEMICAL

Valid to: October 31, 2019

Certificate Number: 2918.01

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-TRPLC	Amino Acid: Total Tryptophan By HPLC	AOAC 988.15 (Modified);  R. Shuster, "Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivatization and HPLC", Journal of Chromatography, 431: 271-284 (1988). (Modified)  Henderson, J.W.M Ricker, R.D., Bidlingmeyer, B.A, Woodward, C., "Rapid, Accurate, Sensitive and Reproducible HPLC Analysis of Amino Acids, Amino Acid Analysis Using Zorbax Eclipse-AAA Columns and the Agilent 1100 HPLC," Agilent Publication, (2000) (Modified)
MP-FAALC-MA	Amino Acids by HPLC	R. Schulster, "Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivatization and HPLC", Journal of Chromatography. 1988, 431, 271-284  Henderson, J. W., Richer, R.D. Bidlingmeyer, B.A., Woodward, C., "Rapid, Accurate, Sensitive, and Reproducible HPLC Analysis of Amino Acids, Amino Acid Analysis Using Zorbax Eclipse-AAA columns and the Agilent 1100 HPLC," Agilent Publication, 2000

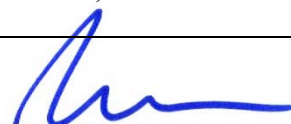
<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-AN_AAULC	Amino Acid Profile and Absence Verification Analysis in Metabolic Products and Premixes by UHPLC	Client Supplied Method
MP-BLCMS	Analysis of B-Vitamins By LC/MS/MS in Infant Formula and Dietary Supplement	Internally Developed Method
MP-AS_SPEC	Arsenic by IC-ICP-MS	FDA Elemental Analysis Manual [Internet]. Silver Spring (MD): Food and Drug Administration (US); Section 4.11 [Version 1.1; 2012 November]. Arsenic Speciation in Rice and Rice Products Using High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometric Determination  Kutscher, D., McSheehy, S., Wills, J., Jensen, D., "IC-ICP-MS Speciation Analysis of As in Apple Juice using the Thermo Scientific iCAP Q ICP-MS", Thermo Scientific Application Note 43099, (2012)
MP-ICP_MS	As, Cd, Pb, Hg, Sn, Sb and Ni by ICPMS	AOAC 2011.19 (Modified), 993.14 (Modified)
MP-ASHM	Ash	AOAC 923.03 (Modified)
MP-BCAN	Beta-Glucan: Rapid Enzymatic Procedure	AOAC 995.16  McCleary. (2014). "Mixed-Linkage Beta Glucan, Assay procedure (McCleary Method)," (K-BGLU). Megazyme, 1-19. Accessed from <a href="http://secure.megazyme.com/files/Booklet/K-BGLU_1411_DATA.pdf">http://secure.megazyme.com/files/Booklet/K-BGLU_1411_DATA.pdf</a>  McCleary, B.V., Bugford, D.C., "Determination of beta-D-Glucan in Barley and Oats by Streamlined Enzymatic Method", Journal of AOAC INTERNATIONAL. 80: 580-583, (1997)
MP-BHAL-MA	BHA, BHT and TBHQ by GC	AOAC 968.17 (Modified)



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-BIOM-MA	Biotin (Total Biotin/Free Biotin) by the Microbiological Method	Scheiner, J. and DeRitter, "Biotin Content of Feedstuffs,": Journal of Agricultural Food Chemistry, 23(6):1157-1162 (1975) (Modified)  Wright, L.D. and Skeggs, H.R., "Determination of Biotin with <i>Lactobacillus arabinosis</i> ," Procedures of the Society of Experimental Biology and Medicine, 56:95-98 (1944). (Modified)  Free Biotin, Section C-13, Methods of Analysis for Infant Formulas, Infant Formula Council, (1985). (Modified)  Scheiner, J., "Extraction of Added Biotin From Animal Feed Premix," Journal of the AOAC, 49:882m (1996) (Modified)
MP-MCPD_TOT	Bound Monochloropropanediol (MCPD) and Bound 2,3-Epoxy- 1-Propanol (Glycidol) in Edible Oils and Fats by GC/MS/MS	AOCS Official Method Cd 29b-13 (2013), (modified)
MP-ICP	Ca, Cu, Fe, K, Mg, Mn, Na, P and Zn by ICP	AOAC: 984.27, 985.01 and 2011.14 (Modified)
MP-CFAT-MA MP-CALC-MA	Calories and Calories from Fat	Code of Federal Regulations, Title 21, Part 101.9, pp.24-25
MP-BCLC-MA	Carotenes (alpha, beta, lycopene) by HPLC	AOAC 2005.07 (Modified)  Quackenbush, F. W., "Reverse Phase HPLC Separation of cis- and trans-Carotenoids and its Application to Beta Carotenes in Food Materials," Journal of Liquid Chromatography, 10:643-653 (1987) (Modified)
MP-CHO-MA	Carbohydrates	United States Department of Agriculture, "Energy Value of Foods," Agriculture Handbook No. 74, pp 2-11 (1973).
MP-SALT	Chloride	AOAC: 963.05, 971.27, 986.26 (Modified)
MP-CHOK	Cholesterol	AOAC 994.10 (Modified)
MP-SEMSPLUS	Cr, Mo, Se by ICP-MS	AOAC 2011.19 (Modified)
MP-AN_PMX	Cr, Mn, Fe, Cu, Zn, Se and Mo in Premixes by ICP-MS	Internally Developed Method

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-B12F-MA	Cyanocobalamin (Vitamin B12)	AOAC: 952.20, 960.46 (Modified)  Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, GA, Section C-3(1985) (Modified)
MP-SPGP	Density	NIST Handbook 133 – Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)
MP-AN_CAR	Determination of B-Carotene and Lycopene by HPLC	Client Supplied Method
MP-ANNUC_EQ	Determination of Ribonucleotide Equivalents in Nutritional Products	Client Supplied Method
MP-FOS_IF	Determination of Total Fructans in Infant Formula by HPAEC-PAD	Haselberger, P., Jacobs, W., “Determination of Fructans in Infant, Adult, and Pediatric Nutritional Formulas: Single Laboratory Validation, First Action 2016.06”, Journal of AOAC INTERNATIONAL 99 (6): 1576-1588 (2016) (modified)
MP-VALC	Determination of Vitamin A by UHPLC/HPLC	AOAC: 992.04, 992.06, 2001.13
MP-LLPAH	Determination of 9 polycyclic Aromatic Hydrocarbons by GCMSMS	Internally Developed Method
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 932.06, 989.05, 986.25, 945.48B (Modified)
MP-FAME	Fatty Acid Profile with Trans	AOAC 996.06; AOCS: Ce 1h-05, Ce 2-66, Ce 2b- 11 and Ce 1j-07
MP-SFLC-MA	Fibersol by HPLC	AOAC 2001.03 (Modified)
MP-AN_FSIE	Fluoride by Selective Ion Electrode	Client Supplied Method
MP-FOAN-MA	Folic Acid by the Microbiological Method	AOAC: 992.05 (Low Level), 960.46, 944.12 (High Level) (Modified)  Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, GA, Section C-2 (1985) (Modified)

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-FOAP-MA	Folic Acid by the Microbiological Method	AOAC: 944.12. 960.46 (Modified)
MP-CARCOL	Free and Total Carnitine and Choline by LC/MS/MS	AOAC 2015.10
MP-AN_FOS	Fructan Determination by HPAEC/PAD	Client Supplied Method
MP-FOSR-MA	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,” <i>Journal of Agricultural and Food Chemistry</i> , 52 (8):2137-2146 (2004) (Modified)
MP-AN_2FL	2’ Fucosyllactose Determination by HPAEC/PAD	Client Supplied Method
MP-GLRL	Glycerol Analysis by Gas Chromatography	Internally Developed Method
MP-GOSINT	GOS in Infant Formula by HPAEC-PAD	Internally Developed Method
MP-AN_GOSIF	GOS in Infant Formula by HPAEC-PAD	Internally Developed Method
MP-GOSRAW	GOS in Raw Material by HPAEC-PAD	Official Method No. 2001.02, Official Methods of Analysis of AOAC INTERNATIONAL (Modified), 18th Ed., AOAC INTERNATIONAL: Gaithersburg, Maryland (2005)  Dionex/Thermo Application Note 155: Determination of Trans-Galactooligosaccharides in Foods by AOAC Method 2001.02 2003 (Modified)
MP-AN_HMB	Hydroxy-3-methylbutyric Acid by HPLC	Client Supplied Method
MP-ISDF	Insoluble, Soluble and Total Dietary Fiber (Lee)	AOAC 991.43 (Modified)
MP-IODICPMS	Iodine by ICP-MS	AOAC 2012.15
MP-IODISE	Iodine by Ion Selective Electrode	AOAC 992.24 (Modified)



<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-LOLA	Low Level Lactose and Lactulose Analysis by HPAEC-PAD	Dionex/Thermo Technical Note 146: Fast Determinations of Lactose and Lactulose in Milk Products using HPAEC-PAD, 2013, (Modified)  Dionex/Thermo Technical Note 248: Determination of Lactose in Lactose-Free Milk Products by High-Performance Anion-Exchange Chromatography with Pulsed Amperometric Detection, 2014, (Modified)  Dionex/Thermo CarboPac Combined Column Manual: Document No 031824-08, 2010, (Modified)
MP-AN_LUT	Lutein Determination by HPLC	Client Supplied Method
MP-LUTE_IF	Lutein in Infant Formula and Adult Nutritional by HPLC	Internally Developed Method
MP-MEL_CYA	Melamine and Cyanuric Acid by UHPLC-MS/MS	Internally Developed Method
MP-M100_T100	Moisture	AOAC: 925.09, 926.08 (Modified)
MP-M70_T70	Moisture	AOAC 934.06 (Modified)
MP-M60_T60	Moisture	AOAC 925.45 (Modified)
MP-MUDA	Moisture in Meat	AOAC 950.46 (Modified)
MP-INOSAOAC	Myo-Inositol by HPLC, Column Switching and Pulsed Amperometry	AOAC 2011.18
MP-NIAP-MA	Niacin/Niacinamide (Nicotinic Acid/Nicotinamide) by the Microbiological Method	AOAC: 944.13, 960.46 (Modified)



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-NO2NO3	Nitrite and Nitrate in Food and Beverages	<p>Casanova, J., Gross, L., McMullen, S., and Schenck, F. "Use of Griess Reagent Containing Vanadium (III) for Post-Column Derivatization and Simultaneous Determination of Nitrite and Nitrate in Baby Food," Journal of. AOAC International ,89(2): 447-451 (2006) (Modified)</p> <p>Gapper, L., Fong, B., Otter, D., Indyk, H., and Woollard, D. "Determination of Nitrite and Nitrate in Dairy Products by Ion Exchange LC with Spectrophotometric Detection," International Dairy Journal 14: 881-887 (2004) (Modified)</p> <p>George, S., Ofitserova, M., and Pickering, M., "Simultaneous Determination of Nitrite and Nitrate in Processed Foods," Method Abstract for Post-column Liquid Chromatography 123, Pickering Laboratories, Inc. (2011)  <a href="http://www.pickeringlabs.com">http://www.pickeringlabs.com</a> (accessed 06 Mar 2013)</p>
MP-NUTD	Nucleotides by HPLC	Internally Developed Method
MP-ANID	P-Anisidine Value	AOCS Cd 18-90; USP <401>
MP-PATULIN	Patulin Screen in Raw Fruits and Finished Products containing Fruits by UHPLC-MS/MS	Internally Developed Method
MP-PVFF	Peroxide Value	<p>AOAC 965.33, 983.23 (Modified)</p> <p>USP&lt;401&gt; (Modified)</p> <p>United States Pharmacopeia, 37th Rev., "Preparation and Standardization", Volumetric Solutions, USP Convention, Rockville, MD,p. 1460-1461, (2014) (Modified)</p>
MP-PHAL	pH	<p>AOAC 981.12 (Modified)</p> <p>FCC &lt;Appendix II&gt; (Modified)</p> <p>USP &lt;791&gt; (Modified)</p>
MP-DGEN	Protein Dumas Method	AOAC: 968.06, 992.15 (Modified)
MP-PGEN	Protein Kjeldahl Method	Official Methods and Recommended Practices of the American Oil Chemists' Society, Champaign, IL, Official Method Ac 4-91 (2011) (Modified)



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-B6A	Pyridoxine Hydrochloride/ Pyridoxine Free Base by Microbiological Method	AOAC 961.15 (Modified)  Atkins, L. Schultz, A.S., Williams, W.L. and Frey, C.N., “Yeast Microbiological Methods for Determination of Vitamins,” Industrial and Engineering Chemistry, Analytical Edition, 15:141-144 (1943)
MP-MYCO_IF	Regulated Mycotoxins in Infant Formula and Infant Cereals by UHPLC-MS/MS	Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schuhmacher, R., Krska, R. and Berthiller, F., “Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS,” Analytical and Bioanalytical Chemistry, 402:2675-2686 (2012)
MP-MYCO_REG	Regulated Mycotoxins in Raw	Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schuhmacher, R., Krska, R. and Berthiller, F., “Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS,” Analytical and Bioanalytical Chemistry, 402:2675-2686 (2012).
MP-KRST-MA	Resistant Starch	AOAC 2002.02
MP-B2FV-MA	Riboflavin (B2)	AOAC: 940.33, 960.46 (Modified)
MP-SEIF	Simultaneous Determination of Chromium, Selenium and Molybdenum by ICP-MS	AOAC 2011.19
MP-AN_VITAE	Simultaneous Determination of 13-Cis, All-Trans Vitamin A Palmitate, 13-Cis, all Trans Vitamin A Acetate, Alpha Vitamin E Acetate, Alpha Tocopherol by HPLC and Column Switching	Client Supplied Method
MP-AN_OSV	Simultaneous Determination of Oil-Soluble Vitamins in Commodities And Premixes by HPLC	Client Supplied Method
MP-SUGX-MA	Sugar Alcohols by HPAEC	Internally Developed Method





<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-SUGN	Sugar by GC	<p>Brobst, K. M., "Gas-Liquid Chromatography of Trimethylsilyl Derivatives", Methods in Carbohydrate Chemistry, 6:3-8, Academic Press, New York, NY (1972) (Modified)</p> <p>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) (Modified)</p>
MP-SUGT	Sugar by GC	<p>Brobst, K. M., "Gas-Liquid Chromatography of Trimethylsilyl Derivatives", Methods in Carbohydrate Chemistry, 6:3-8, Academic Press, New York, NY (1972) (Modified)</p> <p>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) (Modified)</p>
MP-SGLC	Sugar Profile by HPLC	AOAC 982.14 (Modified)
MP-SGIC_2	Sugar Profile by High Performance Anion Exchange Chromatography with Pulsed Amperometric Detection Chromatography	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-TAUR_LC	Taurine by HPLC	<p>AOAC 999.12 (Modified)</p> <p>R. Schuster, "Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivatization and HPLC", Journal of Chromatography, 431:271-284, (1988) (Modified)</p> <p>Henderson, J.W., Ricker, R.D. Bidlingmeyer, B.A., Woodward, C., "Rapid, Accurate, Sensitive, and Reproducible HPLC Analysis of Amino Acids, Amino Acid Analysis Using Zorbax Eclipse-AAA columns and the Agilent 1100 HPLC," Agilent Publication, 2000 (Modified)</p> <p>Henderson, J.W., Books, A., "Improved Amino Acid Methods using Agilent Zorbax Eclipse Plus C18 Columns for a Variety of Agilent LC Instrumentation and Separation Goals," Agilent Application Note 5990-4547, (2010)</p>

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-TBHQ-MA	Tert-Butylhydroquinone by HPLC	AOAC 983.15 (Modified)  The EFSA Journal “Opinion of the Scientific Panel on Food Additives, Flavourings, Processing Aids, and Materials in Contact with Food on a request from the Commission related to TBHQ Question Number EFSA-Q-2003-141, 84:1-50 (Adopted on 12 July 2004)
MP-TBHQ_OIL-MA	Tert-Butylhydroquinone by HPLC	AOAC 983.15 (Modified)  The EFSA Journal “Opinion of the Scientific Panel on Food Additives, Flavourings, Processing Aids, and Materials in Contact with Food on a request from the Commission related to TBHQ Question Number EFSA-Q-2003-141, 84:1-50 (Adopted on 12 July 2004)
MP-BIDE-MA	Thiamin (B1)	AOAC: 942.23, 953.17, 957.17 (Modified)
MP-B1B2B6	Thiamine, Riboflavin and Pyridoxine by HPLC	Client Supplied Method
MP-KTAC-MA	Titrateable Acidity	Client Supplied Method
MP-TAALC	Total Amino Acids by HPLC	Barkholt and Jensen, “Amino Acid Analysis: Determination of Cystine plus Half-Cystine in Proteins after Hydrochloric Acid A Hydrolysis with a Disulfide Compound as Additive”, Analytical Biochemistry, 177:318-322 (1989)  R. Shuster, “Determination of Amino Acids in Biological, Pharmaceutical, Plant and Food Samples by Automated Precolumn Derivitization and HPLC”, Journal of Chromatography, 431:271-284 (1988)  Henderson, J.W.M Ricker, R.D., Bidlingmeyer, B.A, Woodward, C., “Rapid, Accurate, Sensitive and Reproducible HPLC Analysis of Amino Acids, Amino Acid Analysis Using Zorbax Eclipse-AAA columns and the Agilent 1100 HPLC,” Agilent Publication, (2000)  Henderson, J.W., Books, A., “Improved Amino Acid Methods using Agilent Zorbax Eclipse Plus C18 Columns for a Variety of Agilent LC Instrumentation and Separation Goals,” Agilent Application Note 5990-4547 (2010)
MP-TDFR-MA	Total Dietary Fiber (LEE)	Client Supplied Method

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP-TDF-MA	Dietary Fiber (Prosky)	AOAC 985.29 (Modified)
MP-VKTK	Vitamin K <sub>1</sub> and K <sub>2</sub>	AOAC: 999.15, 992.27 (Modified)
MP-VITAE_IF	Vitamin A and E in Milk-Based Infant Formula by HPLC	AOAC 992.03, 992.06 (Modified)
MP-PANN	Vitamin B5 by the Microbiological Method	AOAC: 945.74, 992.07, 960.46 (Modified)
MP-B12LC	Vitamin B12 in Infant Formulas, Adult Nutritionals and Dietary Supplements by HPLC	AOAC 2011.10 (Modified)
MP-VCF	Vitamin C	AOAC 967.22 (Modified)
MP-CALL	Vitamin C and Erythorbic Acid	AOAC 967.22  Fontannaz, P., Kilinc, T., Heudi, O., "HPLC – UV determination of total vitamin C in a wide range of fortified food products", Food Chemistry 94: 626-631, (2006) (Modified)  Capellmann, M., Bolt. H., "Simultaneous determination of ascorbic acid and dehydroascorbic acid by HPLC with postcolumn derivatisation and fluorometric detection", Fresenius' Journal of Analytical Chemistry 342:462-466, (1992) (Modified)
MP-VDMS	Vitamin D by LCMS	AOAC 2011.11 (Modified)  Huang, M., Laluzerne, P., Winters, D., Sullivan, D., "Measurement of Vitamin D in Foods and Nutritional Supplements by Liquid Chromatography/Tandem Mass Spectrometry," Journal of AOAC International, Volume (92). No. 5:1327-1335 (2009)

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
MP- LCAT	Vitamin E, Tocopherols, Tocotrienols by Ultra or High Performance Liquid Chromatography	<p>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. <i>Journal of Food Science</i>, 50: 121-124 (Modified)</p> <p>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. <i>Journal of Agricultural Food Chemistry</i>, 31: 1330-1333 (Modified)</p> <p>McMurray, C.H., Blanchflower, W.J., and Rice D.A. 1980. Influence of Extraction Techniques on Determination of <math>\alpha</math>-Tocopherol in Animal Feedstuffs. <i>Journal of the Association of Official Analytical Chemists</i>, 63: 1258-1261 (Modified)</p>
MP-WACT	Water Activity by Chilled-Mirror Dew Point	AOAC 978.18 (Modified)

Abbreviations used in References

AOAC	AOAC International (Association of Analytical Communities)
AOCS	American Oil Chemists' Society
EFSA	European Food Safety Authority
FCC	Food Chemicals Codex
FDA	Food and Drug International
NIST	National Institute of Standards and Technology
USP	U.S. Pharmacopeia



## Accredited Laboratory

A2LA has accredited

# EUROFINS FOOD CHEMISTRY TESTING US, INC.

Madison, WI

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 29<sup>th</sup> day of November 2017.

A handwritten signature in blue ink, positioned above a horizontal line.

Senior Director, Accreditation Services  
For the Accreditation Council  
Certificate Number 2918.01  
Valid to October 31, 2019  
Revised January 2, 2019

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