



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EUROFINS FOOD TESTING SINGAPORE PTE LTD

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CHEMICAL

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Certificate Number: 2918.02

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 the 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 and dietary supplements:

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-AN_HMB	3-Hydroxy-3-methylbutyric Acid by HPLC	Client Supplied Method
AN_HMBMS	3-Hydroxy-3-Methylbutyric Acid by LC-MS	Client Supplied Method
MP-ACMS2	Acrylamide in Foods by LC-MS/MS	European Standard EN 16618:2015 (Modified)
MP-ICP_MS	Al, As, Cd, Pb, Hg, Sb, Sn and Ni by ICP-MS	AOAC 2011.19, 993.14 (Modified) AOAC 2015.01 (Modified)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-TRPLC	Amino Acid – Total Tryptophan by HPLC	<p>AOAC 988.15 (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>
BGFCCIC	Analysis of Beta Glucan from Baker's Yeast by High Performance Anion Exchange Chromatography with Pulsed Amperometric Detection	Internally Developed Method
SG_CS2	Analysis of Dithiocarbamates (as Total Carbon Disulphide) by GC-FPD	Analysis of Dithiocarbamate Residues in Foods of Plant Origin Involving Cleavage into Carbon Disulfide, Partitioning into Isooctane and Determinative Analysis by GC-ECD, EURL-SRM (Modified).
MP-ASHM	Ash	AOAC 923.03 (Modified)
MP-ORG1	Benzoic Acid and Sorbic Acid Analysis by HPLC	Bui, L.V., and Cooper, C., "Reverse-phase liquid chromatographic determination of benzoic and sorbic acid in foods," Journal of the Association of Official Analytical Chemists, 70(5): 892-896 (1987), (Modified)
MP-AN_CAR	Beta Carotene and Lycopene by HPLC	Client Supplied Method
MP-BCLC-MA CAR1	Beta Carotene in Infant Formula, Crops, and High Fat Content Food (SAP) by HPLC	<p>AOAC 2005.07 (Modified)</p> <p>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)</p>

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-BIOM-MA	Biotin (Total Biotin/Free Biotin) by the Microbiological Method	<p>Scheiner, J. and DeRitter, "Biotin Content of Feedstuffs", Journal of Agricultural Food Chemistry, 23(6): 1157-1162 (1975) (Modified)</p> <p>Wright, L.D., 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)</p> <p>Free Biotin, Section C-13, Methods of Analysis for Infant Formulas, Infant Formula Council (1985) (Modified)</p> <p>Scheiner, J., "Extraction of Added Biotin from Animal Feed Premix, "Journal of the AOAC, 49(4):882-883, (1996) (Modified)</p>
MP-MCPD_TOT	Bound Monochloropropanediol (MCPD) and Bound 2,3-Epoxy-1-Propanol (Glycidol) in Edible Oils and Fats by GC-MS/MS	<p>AOCS Official Method Cd 29b-13 (2013) (Modified)</p> <p>AOCS Official Method Cd 29a-13 (2013) (Modified)</p>
MP-BLCMS	B-Vitamins by LC-MS/MS	Internally Developed Method
MP-ICP	Ca, Cu, Fe, K, Mg, Mn, Na, P, and Zn by ICP	AOAC 984.27, 985.01, 2011.14 (Modified)
MP-CALC-MA	Calories	Code of Federal Regulations, Title 21, Part 101.9, pp.24-25
MP-CHO-MA	Carbohydrates	United States Department of Agriculture, "Energy Value of Foods, "Agriculture Handbook No. 74, Pp 2-11 (1973)
MP-SALT	Chloride/Salt	AOAC 963.05, 971.27, 986.26 (Modified)
MP-CHOK	Cholesterol	AOAC 994.10 (Modified)
MP-COL4	Choline (Total)	AOAC 999.14 (Modified)
MP-SEMSPLUS	Cr, Mo, Se by ICP-MS	AOAC 2011.19 (Modified)
MP-SEIF	Cr, Mo, Se in Infant Formula by ICP-MS	AOAC 2011.19
MP-CFIB	Crude Fiber	AOAC 962.09 (Modified)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-B12F-MA	Cyanocobalamin (Vitamin B12) by the Microbiological Method	AOAC 952.20, 960.46 (Modified) AOAC 2011.10 (Standard Stability) Methods of Analysis for Infant Formulas, Infant Formula Council, Atlanta, Georgia, Section C-2, (1985)
MP-MELCYA	Cyanuric Acid and Melamine by UHPLC-MS/MS	Internally Developed Method
MP-SPGP	Density	NIST Handbook 133 – Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)
AMGVD	Determination of Aminoglycoside Antibiotics in Foods of Animal Origin by LC-MS/MS	AOAC Official Method 2020.04. Screening of 154 Veterinary Drug Residues in Foods of Animal Origin (Modified)
MP-AN_CPPRAW	Determination of Casein Phosphopeptide by Barium-Ethanol Precipitation	Client Supplied Method
MP-MCPD_DCP	Determination of Chloropropanols in Savory Sauces by GC-MS/MS	Internally Developed Method
AN_CPPMS	Determination of Concentration of Casein Phosphopeptide Ingredients in Finished Products Using Marker Phosphopeptides and Liquid Chromatography – Mass Spectroscopy	Client Supplied Method
AN_CPPSEC	Determination of Concentration of Casein Phosphopeptides Ingredients in Finished Products Using High-Performance Liquid Chromatography	Client Supplied Method
MP-AN_GD3	Determination of Disialoganglioside (GD3) in Milk Products by LC-MS/MS	Client Supplied Method
MP-INOSPHOS	Determination of Free and Bound Myo-inositol by HPLC, Column Switching, and Pulsed Amperometry	AOAC 2011.18 (Modified)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-INOSAOAC	Determination of Free Myo-Inositol by HPLC, Column Switching and Pulsed Amperometry	AOAC 2011.18 (Modified)
MP-FOS_IF	Determination of Total Fructans in Infant Formula	Haselberger, P., Jacobs, W., Part II – Quantitative Determination of Total Fructan, “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) Cuany, D., Bénet, T., Austin, S., “Development and Single Laboratory Validation of a Method for the Determination of Total Fructans in Infant Formula”, Journal of AOAC INTERNATIONAL 93 (1): 202-212 (2010) (Modified)
MP-TPMDYES	Determination of Triphenylmethane Dyes and Their Metabolites in Aquaculture Products by LC-MS/MS	AOAC Official Method 2012.25 (Modified)
SG_VD01	Determination of Veterinary Drug Residues in Foods of Animal Origin by LC-MS/MS	Internally Developed Method
MP-HISTASENSI	Enzyme Immunoassay Quantitative Determination of Histamine	Eurofins 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	AOAC 996.06; AOCS Ce 1h-05, Ce 2-66, Ce 2b-11, and Ce 1j-07
MP-FOAN-MA	Folic Acid by the Microbiological Method	AOAC 992.05, 960.46 (Modified) “Methods of Analysis of Infant Formulas,” Infant Formula Council, Atlanta, GA, Section C-2 (1985) (Modified)
MP-CARCOL	Free and Total Carnitine and Choline by LC/MS/MS in Infant Formula and Adult Nutritionals	AOAC 2015.10

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
FFA2	Free Fatty Acids by Titration	United States Pharmacopeia, 39th Revision, <401> Fats and Fixed Oils, USP Convention, Inc., Rockville, MD (2016) Official Methods and Recommended Practices of the AOCS, Sixth Ed., Method Ca 5a-40, American Oil Chemists' Society, Champaign, Illinois (1997)
MP-FOSR	Fructooligosaccharides with HPAEC and 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 (8):2137-2146 (2004) (Modified)
MP-GOSINT	Galactooligosaccharides in Infant Formula by HPAEC-PAD	Coulier et al., "In-Depth Characterization of Prebiotic Galactooligosaccharides by a Combination of Analytical Techniques", J. Agric. Food Chem. 57(18): 8488-8495 (2009)
MP-GOSRAW	Galactooligosaccharides in Raw Material by HPAEC-PAD	AOAC 2001.02 (Modified) Dionex/Thermo Application Note 155: Determination of Trans-Galactooligosaccharides in Foods by AOAC Method 2001.02 (2003) (Modified)
AN_5HMO	Human Milk Oligosaccharides	Client Supplied Method
ISDF_SG	Insoluble, Soluble, and Total Dietary Fiber (Lee)	AOAC 991.43 (Modified)
MP-IODICPMS	Iodine by Inductively Coupled Plasma-Mass Spectrometry	AOAC 2012.15 (Modified)
KFMO	Karl Fischer Moisture	The United States Pharmacopeia, <921>, Method 1a, The United States Pharmacopeial Convention, Rockville, MD (Current Version), (Modified)
MP-AN_LUT	Lutein Determination by HPLC	Client Supplied Method
MP-LUTE_IF	Lutein in Infant Formula and Adult Nutritionals by HPLC	Internally Developed Method
MP-M100_T100	Moisture/Total Solids	AOAC 925.09, 926.08 (Modified)
MP-M70_T70	Moisture/Total Solids	AOAC 934.06 (Modified)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-MCPD_GE	Monochloropropanediols (MCPD), MCPD Fatty Acid Esters and Glycidyl Fatty Acid Esters in Infant Formula and Related Matrices by GC-MS/MS	AOAC 2018.12, First Action
SG_MON	Moniliformin by LC-MS/MS	Internally Developed Method Herrera M, van Dam R, Spanjer M, de Stoppelaar J, Mol H, de Nijs M, López P. Survey of moniliformin in wheat- and corn-based products using a straightforward analytical method. Mycotoxin Res. 2017 Nov; 33(4):333-341.
MP-INOS_IC	Myo-Inositol (Total Inositol/Free Inositol) by HPAEC with PAD	AOAC 2012.12 Ellingson, D.; Pritchard, T.; Foy, P.; King, K.; Mitchell, B.; Austad, J.; Winters, D.; Sullivan, D. "Analysis of Free and Total Myo-Inositol in Foods, Feeds, and Infant Formula by High-Performance Anion Exchange Chromatography with Pulsed Amperometric Detection, including a Novel Total Extraction Using Microwave-Assisted Acid Hydrolysis and Enzymatic Treatment" Journal of AOAC INTERNATIONAL, 95(5):1469-1478 (2012)
MP-NIAP-MA	Niacin/Niacinamide (Nicotinic Acid/ Nicotinamide) by the Microbiological Method	AOAC 944.13, 960.46 (Modified)
MP-NO2NO3	Nitrite and Nitrate by Simultaneous Post Column Reduction and Derivatization Utilizing Ion Exchange Chromatography and Visible Spectroscopy	Internally Developed Method
MP-NTFN	Nitrofurantol Metabolites by UHPLC-MS/MS	Internally Developed Method
MP-NUTD	Nucleotides by HPLC	Internally Developed Method
MP-ANID	p-Anisidine Value	AOCS Official Method Cd 18-90 USP 38 – NF 33, Chapter <401>

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-PVFF	Peroxide Value	AOAC 965.33, 983.23 (Modified) USP <401> (Modified) United States Pharmacopeia, 37th Rev., "Preparation and Standardization", Volumetric Solutions, USP Convention, Rockville, MD, p. 1460-1461, (2014) (Modified)
MP-PS05	Pesticides (Over 500 Analytes by GC-MS/MS and LC-MS/MS) Abamectin Acephate Acetamiprid Acetochlor Acibenzolar-S-methyl Aclonifen Acrinathrin Alachlor Aldicarb Aldicarb sulfone (Aldoxycarb) Aldicarb sulfoxide Aldrin Allethrin Ametryn Amidosulfuron Aminocarb Amitraz metabolite DMF Amitraz metabolite DMPF Anilofos Atrazine Azaconazole Azamethiphos Azinphos-ethyl Azinphos-methyl Azoxystrobin Beflubutamid Benalaxyl Bendiocarb Benfluralin Benoxacor Bensulide Benzoximate Benzyladenine Bifenazate Bifenox Bifenthrin Bispyribac Bitertanol	Internally Developed Method



<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Bixafen Boscalid Bromacil Bromophos-ethyl Bromophos-methyl Bromopropylate Bromuconazole (2 diastereoisomers) Bupirimate Buprofezin Butachlor Butafenacil Butocarboxim Butocarboxim sulfoxide Butoxycarboxim Butylate Cadusafos Carbaryl Carbendazim Carbetamide Carbofuran Carbofuran-3-hydroxy- Carbophenothion Carboxin Carfentrazone-ethyl Chlorantraniliprole Chlorbromuron Chlordane, cis- Chlordane, trans- Chlordimeform Chlorfenapyr Chlorfenvinphos (E- and Z- isomers) Chlorfluazuron Chloridazon (Pyrazon) Chlorimuron-ethyl (Classic) Chlorobenzilate Chlorotoluron (Chlortoluron) Chloroxuron Chlorpropham (CIPC) Chlorpyrifos Chlorpyrifos-methyl Chlorsulfuron Clethodim (E- and Z-isomers) Clodinafop-propargyl Clofentezine Clomazone Cloquintocet-mexyl Clothianidin	



<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Coumaphos Cyanazine Cyanofenphos Cyantraniliprole Cyazofamid Cycloate Cycloxydim Cycluron Cyflufenamid Cyflumetofen Cyfluthrin Cyhalothrin, lambda- Cymiazole Cymoxanil Cypermethrin Cyproconazole (2 diastereoisomers) Cyprodinil Cyromazine Dacthal (Chlorthal-dimethyl, DCPA) DDD, o,p'- DDD, p,p'- DDE, o,p'- DDE, p,p'- DDT, o,p'- DDT, p,p'- DEET (Diethyltoluamide) Deltamethrin Demeton-O Demeton-S Demeton-S-methyl Demeton-S-methyl sulfone Desmedipham Dialifos (Dialifor) Diazinon Diazinon oxon Dichlobenil Dichlofenthion Dichlofluanid Dichlorvos Diclobutrazol Diclocymet (2 diastereoisomers) Dicloran (DCNA) Dicofof Dicrotophos Dieldrin Diethofencarb Difenconazole (cis- and trans-)	

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Diflubenzuron Diflufenican Dimethachlor Dimethametryn Dimethenamid Dimethoate Dimethomorph (E- and Z-isomers) Dimetilan Dimoxystrobin Diniconazole Dinitramine Dinotefuran Dioxacarb Diphenamid Diphenylamine Dipropetryn Disulfoton Disulfoton sulfone Disulfoton sulfoxide Diuron DMST (Dimethylaminosulfotoluidide) Dodemorph (cis- and trans-) Dodine Doramectin Enamectin benzoate Endosulfan I (alpha-isomer) Endosulfan II (beta-isomer) Endosulfan sulfate Endrin EPN Epoxiconazole Eprinomectin Ethaboxam Ethalfluralin Ethidimuron (Sulfadiazole) Ethiofencarb Ethiofencarb sulfone Ethiofencarb sulfoxide Ethion Ethiprole Ethirimol Ethofumesate Ethoprophos (Ethoprop) Etofenprox Etoxazole Etrimfos Famoxadone	



<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Fenamidone Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenbutatin oxide Fenchlorphos (Ronnell) Fenchlorphos oxon Fenhexamid Fenitrothion Fenobucarb Fenoxanil (sum of isomers) Fenoxycarb Fenpropathrin Fenpropidin Fenpropimorph Fenpyroximate Fensulfothion Fensulfothion oxon Fensulfothion oxon sulfone Fensulfothion sulfone Fenthion Fenthion oxon Fenthion oxon sulfone Fenthion oxon sulfoxide Fenthion sulfone Fenthion sulfoxide Fentin Fentrazamide Fenuron Fenvalerate/Esfenvalerate (sum of isomers) Fipronil Fipronil desulfinyl Fipronil sulfone Flazasulfuron Flonicamid Florylpicoxamid Fluazaindolizine Fluazifop-butyl Flubendiamide Flucarbazone-sodium Flucythrinate (sum of isomers) Fludioxonil Flufenacet Flufenoxuron Flumethrin	

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Flumetsulam Flumioxazin Fluometuron Fluopicolide Fluopyram Fluoxastrobin Fluquinconazole Fluridone Flusilazole Flutolanil Flutriafol Fluvalinate, tau- (sum of isomers) Fluxapyroxad Fonofos Foramsulfuron Forchlorfenuron Formetanate hydrochloride Formothion Fosthiazate (sum of isomers) Fuberidazole Furalaxyl Furathiocarb Griseofulvin Halofenozide Halosulfuron-methyl Haloxyfop-methyl HCH, alpha- (alpha-BHC) HCH, beta- (beta-BHC) HCH, delta- (delta-BHC) Heptachlor Heptachlor endo-epoxide Heptachlor exo-epoxide Hexachlorobenzene (HCB) Hexaconazole Hexaflumuron Hexazinone Hexythiazox Hydramethylnon Hydroprene, S- (sum of isomers) Imazalil Imazamethabenz-methyl Imazethapyr Imidacloprid Indoxacarb Ipconazole Iprodione Iprodione isomer Iprodione metabolite	



<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Iprovalicarb Isocarbamid Isocarbophos Isofenphos Isofenphos-methyl Isoprocarb Isoprothiolane Isoproturon Isoxaben Isoxadifen-ethyl Isoxaflutole Isoxathion Ivermectin Kresoxim-methyl Lactofen Lenacil Lindane (gamma-HCH, gamma-BHC) Linuron Lufenuron Malaoxon Malathion Mandipropamid Mecarbam Mefentrifluconazole Mepanipyrim Mepanipyrim-2-hydroxypropyl Mephosfolan Mesosulfuron-methyl Mesotrione Metaflumizone Metalaxyl Metamitron Metazachlor Metconazole Methabenzthiazuron Methacrifos Methamidophos Methidathion Methiocarb Methiocarb sulfone Methiocarb sulfoxide Methomyl Methoprotryne Methoxychlor Methoxyfenozide Metobromuron Metolachlor Metolcarb	



<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Metosulam Metoxuron Metrafenone Metribuzin Metsulfuron-methyl Mevinphos (E- and Z-isomers) Mexacarbate MGK 264 (sum of isomers) Mirex Molinate Monocrotophos Monolinuron Moxidectin Myclobutanil Naled (Dibrom) Naphthol, 1- Napropamide Neburon Nicosulfuron Nitenpyram Nitralin Nitrofen Nonachlor, cis- Nonachlor, trans- Norflurazon Norflurazon-desmethyl Novaluron Nuarimol Ofurace Omethoate Oxadiazon Oxadixyl Oxamyl Oxamyl oxime Oxasulfuron Oxycarboxin Oxychlordane Oxydemeton-methyl Oxyfluorfen Paclobutrazol Paraoxon Paraoxon-methyl Parathion Parathion-methyl Penconazole Pencycuron Pendimethalin Penoxsulam Pentachloroaniline	

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Pentachloroanisole Pentachlorobenzene Pentachlorobenzonitrile Pentachlorothioanisole Permethrin (sum of isomers) Perthane (Ethylan) Phenmedipham Phenthoate Phenylphenol, 2- (OPP) Phorate Phorate sulfone Phorate sulfoxide Phosalone Phosmet Phosmet oxon Phosphamidon (E- and Z-isomers) Phoxim Picolinafen Picoxystrobin Piperonyl butoxide Piperophos Pirimicarb Pirimicarb-desmethyl Pirimiphos-ethyl Pirimiphos-methyl Pirimiphos-methyl, N-desethyl- Prallethrin Pretilachlor Primisulfuron-methyl Prochloraz Procymidone Prodiamine Profenofos Profluralin Promecarb Prometon Prometryn Propamocarb Propanil Propaquizafop Propargite Propetamphos Propham Propiconazole (sum of isomers) Propoxur Propyzamide (Pronamide) Proquinazid Prosulfocarb	

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Prothioconazole-desthio Prothiofos Pymetrozine Pyracarbolid Pyraclostrobin Pyraflufen-ethyl Pyrazophos Pyrethrum (total) Pyridaben Pyridalyl Pyridaphenthion Pyridate Pyrifenox (E- and Z-isomers) Pirimethanil Pyriproxyfen Pyroquilon Pyroxasulfone Pyroxsulam Quinalphos Quinmerac Quinoclamine Quinoxifen Quintozene Quizalofop Quizalofop-ethyl Resmethrin (sum of isomers) Rimsulfuron Rotenone S421 Schradan (Octamethylpyrophosphoramide) Secbumeton Sethoxydim (E- and Z-isomers) Siduron Silthiofam Simazine Simeconazole Simetryn Spinetoram (spinosyns J and L) Spinosad (spinosyns A and D) Spirodiclofen Spiromesifen Spiromesifen enol Spirotetramat Spiroxamine (2 diastereoisomers) Sulfallate Sulfentrazone Sulprofos	

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Tebuconazole Tebufenozide Tebufenpyrad Tebupirimfos Tebuthiuron Tecnazene Teflubenzuron Tefluthrin Temephos Tepraloxymdim (E- and Z-isomers) Terbacil Terbufos Terbufos sulfone Terbufos sulfoxide Terbumeton Terbuthylazine Terbutryn Tetrachloroaniline, 2,3,5,6- Tetrachloroanisole, 2,3,4,5- Tetrachlorvinphos Tetraconazole Tetradifon Tetrahydrophthalimide (THPI) Tetramethrin (sum of isomers) Thiabendazole Thiabendazole-5-hydroxy- Thiacloprid Thiamethoxam Thiazopyr Thidiazuron Thifensulfuron-methyl Thiobencarb (Benthiocarb) Thiodicarb Thiofanox Thiofanox sulfone Thiofanox sulfoxide Thionazin (Zinophos) Thiophanate-methyl Tolclofos-methyl Tolfenpyrad Tolylfluanid Tralkoxydim Triadimefon Triadimenol Triasulfuron Triazophos Tribenuron-methyl Tribufos (DEF)	

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
	Trichlorfon (Metrifonate) Trichloroanisoole, 2,4,6- Tricyclazole Trietazine Trifloxystrobin Trifloxysulfuron Triflumizole Triflumuron Trifluralin Triforine Trimethacarb Triticonazole Uniconazole Vamidothion Vinclozolin Zoxamide	
MP-PHAL	pH (Hydrogen-Ion Activity)	AOAC 981.12 (Modified) FCC <Appendix II> (Modified) USP<791> (Modified)
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 Methods Ac 4-91 (2011) (Modified)
MJ_B6	Pyridoxal and Pyridoxamine in Powdered and Ready to Feed Infant Formulas, Adult Nutritionals and Premixes	Client Supplied Method
MP-MYCO_REG	Regulated Mycotoxins 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_IF	Regulated Mycotoxins in Infant Formulas 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)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-B2FV-MA	Riboflavin by the Microbiological Method	AOAC 940.33, 960.46 (Modified)
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	AOAC 2012.09
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, New York (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-SGIC_2	Sugar Profile by HPAEC with PAD	<p>AOAC 2018.16 (Modified)</p> <p>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)</p>
MP-SO2T	Sulfite	AOAC 990.28 (Modified)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
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. 1988, 431,271-284 (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>
MP-BIDE-MA	Thiamine by the Microbiological Method	AOAC 942.23, 953.17, 957.17 (Modified)
MP-B1B2B6	Thiamine, Riboflavin, Pyridoxine by HPLC	Client Supplied Method
TTAC	Titrateable Acidity	<p>Official Methods of Analysis, Method 942.15, AOAC INTERNATIONAL, Gaithersburg, Maryland (Modified).</p> <p>ISO 750:1998, Fruit and vegetable products - Determination of titrateable acidity (Modified)</p> <p>ISO 6091:2010, Dried milk - Determination of titrateable acidity (Modified)</p>

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-TAALC	Total Amino Acids by HPLC	<p>Barkholt and Jensen, "Amino Acid Analysis: Determination of Cysteine plus Half-Cystine in Proteins after Hydrochloric Acid Hydrolysis with a Disulfide Compound as Additive," Analytical Biochemistry, 177, 318-322 (1989)</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)</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)</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>
TDF_SG	Total Dietary Fiber (Prosky)	AOAC 985.29 (Modified)
VKIFAOAC	Trans and Total (cis+trans) Vitamin K1 in Infant Formula, Pediatric, and Adult Nutritionals	AOAC 2015.09 (Modified)
SG_TCT	Trichothecenes in Foods using UHPLC-MS/MS	<p>Internally Developed Method</p> <p>Sulyok, M., Berthiller, F., Krska, R., Schuhmacher, R., "Development and validation of a liquid chromatography/tandem mass spectrometric method for the determination of 39 mycotoxins in wheat and maize," Rapid Communications in Mass Spectrometry, 20(18):2649-2659 (2006).</p> <p>UCT, Analysis of Mycotoxins by LC-MS/MS and A QuEChERS Sample Preparation Approach</p>

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
TROP	Tropane Alkaloids in Food by LC-MS	Internally Developed Method Vuković G, Bursić V, Stojanović T, Petrović A, Gvozdenac S, Starović M, Kuzmanović S, Aleksić G (2018): LCMS/MS determination of tropane alkaloids in maize crop. Contemporary Agric. 67: 222. EURL-MP-method_004v1, Determination of tropane alkaloids in processed cereal-based foods for infants and young children by LC-MS/MS.
MP-NONYLPH	Two Nonylphenol Isomers by LC-MS/MS	Internally Developed Method
MP-VITAE_IF	Vitamin A and E in Milk-Based Infant Formula by HPLC	AOAC 992.06, 992.03 (Modified)
MP-VALC	Vitamin A by UHPLC/HPLC	AOAC 992.04, 992.06, 2001.13 (Modified)
MP-B12LC	Vitamin B12 by HPLC	AOAC 2011.10 (Modified)
B12_LCMS	Vitamin B12 by LC_MS/MS	Internally Developed Method AOAC 2011.10 (Modified)
MP-PANN	Vitamin B5 by the Microbiological Method	AOAC 992.07, 960.46, 945.74 (Modified)
MP-B6A	Vitamin B6 as 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-VCF	Vitamin C	AOAC 967.22 (Modified)

<u>Test Method</u>	<u>Test/Technology</u>	<u>Test Method Reference(s)</u>
MP-CALL	Vitamin C and Erythorbic Acid by HPLC	AOAC 967.22 (Modified) 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 LC-MS/MS	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)
MP-LCAT	Vitamin E, Tocopherols, Tocotrienols by Ultra or High Performance Liquid Chromatography	Speek, A.J., Schijver, J., and Schreurs, W.H.P., Journal of Food Science, 50: 121-124 (1985) (Modified) Cort, W.M., Vincente, T.S., Waysek, E.H., and Williams, B.D., Journal of Agricultural Food Chemistry, 31: 1330-1333 (1983) (Modified) McMurray, C.H., Blanchflower, W.J., and Rice, D.A., Journal of the Association of Official Analytical Chemists, 63: 1258-1261 (1980) (Modified)
MP-VKTK	Vitamin K1 and K2	AOAC 999.15, 992.27 (Modified)
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
FCC Food Chemicals Codex
NIST National Institute of Standards and Technology
USP U.S. Pharmacopeia



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Presented this 11th day of July 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2918.02
Valid to July 31, 2025

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