



ABC TESTING, INC

## Advanced Botanical Consulting & Testing Inc.

1169 Warner Ave, Tustin, CA 92780, Phone:(714)259-0384 Fax: (714)259-0385

### Aviva Natural Supplements

26 Van Dyke Avenue  
New Brunswick, NJ 08901

**ATTN:** Ashok Mehta, Manaswi Patel

**TEL#** 732-926-7729 x 109

**FAX#**

### Sample Name: Candida Cleanse Capsules

**Item#** A0714

**Lot#** 20J026

**Lab#** 330317

**PO#**

Analysis:	Method:	Result:	Spec:	Pass/Fail:
Magnesium (Mg)	ICP/MS	86.98 mg/2 cap	45 mg	
Caprylic Acid (GC)	AGC302A	133.72 mg/2 cap	500 mg	
Pau d arco Identification (TLC)	SOP:3.8.534	Confirmed	ID Only	
Black Walnut Hulls Identification (TLC)	SOP:3.8.417	Confirmed	ID Only	
Oregano Oil (GC)	SOP3.2.31	ID confirmed	200 mg	
Carvacrol (GC)		1.23mg/2 cap		
Biotin (HPLC)	SOP:3.1.335	2.18 mg/2 cap	2 mg	
Average fill weight (based on 10)		643.62 mg/capsule		



Cannabis Analytical  
Science Program

Approved by:

*Wendi Wang*  
Wendi Wang, PhD, President

**UAS Labs**  
**Certificate of Analysis / QC Results**

**Customer: 101011 / Natural Slim Inc**

**Customer PO # :**

**Packaged Product:** Your Item # 201265001188  
Our Item # 600170  
NaturalSlim Good Flora, 60CT

<b>Test</b>	<b>Target/UOM</b>	<b>Test Method</b>	<b>Result</b>
COLOR	WHITE TO OFF-WHITE	VISUAL	WHITE TO OFF-WHITE
APPEARANCE	CAPSULES	VISUAL	CAPSULES
TOTAL VIABLE CELL COUNT PER CAPSULE	>= 15 BILLION CFU/CAPSULE	SOP-J32	26 BILLION CFU/CAPSULE
DIETARY INGREDIENT IDENTITY	LACTOBACILLUS ACIDOPHILUS	16S rRNA Gene Sequence or SOP-J61	LACTOBACILLUS ACIDOPHILUS
DIETARY INGREDIENT IDENTITY	BIFIDOBACTERIUM LACTIS	16S rRNA Gene Sequence or SOP-J61	BIFIDOBACTERIUM LACTIS
DIETARY INGREDIENT IDENTITY	LACTOBACILLUS PLANTARUM	16S rRNA Gene Sequence or SOP-J61	LACTOBACILLUS PLANTARUM
DIETARY INGREDIENT IDENTITY	LACTOBACILLUS CASEI	16S rRNA Gene Sequence or SOP-J61	LACTOBACILLUS CASEI
DIETARY INGREDIENT IDENTITY	LACTOBACILLUS SALIVARIUS	16S rRNA Gene Sequence or SOP-J61	LACTOBACILLUS SALIVARIUS
DIETARY INGREDIENT IDENTITY	BIFIDOBACTERIUM LONGUM	16S rRNA Gene Sequence or SOP-J61	BIFIDOBACTERIUM LONGUM
DIETARY INGREDIENT IDENTITY	BIFIDOBACTERIUM BIFIDUM	16S rRNA Gene Sequence or SOP-J61	BIFIDOBACTERIUM BIFIDUM
AVERAGE NET WEIGHT OF CAPSULE CONTENT	450.0 MG	SOP-J4	449.9

**UAS Labs  
Certificate of Analysis / QC Results**

**Customer: 101011 / Natural Slim Inc**

**Customer PO # :**

WEIGHT VARIATION +/- 10%	CONFORMS	SOP-J4	CONFORMS
DISINTEGRATION OF DR CAPSULES	PASS: GF > 30 MIN, IF < 60 MIN	SOP-J17	PASS: GF > 30 MIN, IF < 60 MIN
NON-LACTICS	< 5,000 CFU/G	SOP-J64	300 CFU/G
ESCHERICHIA COLI	NEGATIVE	USP <2022>	NEGATIVE/10G
STAPHYLOCOCCUS AUREUS	NEGATIVE	USP <2022>	NEGATIVE/10G
SALMONELLA	NEGATIVE	USP <2022>	NEGATIVE/10G
TOTAL YEAST AND MOLD COUNT	</= 1,000 CFU/G	SOP-J99	< 10 CFU/G

**Lot #** 1235700  
**Made** 01/12/21  
**Expires** 01/12/23

Signature: *Sara La...* Date: 02-12-2021  
Signature: *Dmitri...* Date: 2-12-21

**Identity testing is performed on raw materials**

Eurofins Microbiology Lab Madison (Wright St)

 2102 Wright Street  
 Madison, WI 53704  
 +1 800-675-8375  
 #US\_ITSNotice@EurofinsUS.com

UAS Laboratories, LLC

 Ashley Lange  
 555 North 72nd Avenue  
 Wausau, WI 54401

**ANALYTICAL REPORT**

AR-21-JL-001882-01

**Client Code:** JL0000186  
**PO Number:** 18041

**Received On:** 03Feb2021  
**Reported On:** 11Feb2021

<b>Eurofins Sample Code:</b> 990-2021-02030204	<b>Sample Registration Date:</b> 03Feb2021
<b>Client Sample Code:</b> 1235700	<b>Condition Upon Receipt:</b> acceptable, non-perishable
<b>Sample Description:</b> NATURALSLIM GOOD FLORA	<b>Sample Reference:</b>

<b>UMAZW - Salmonella spp. - USP Chapter &lt;2022&gt;</b>	<b>Reference</b> U.S. Pharmacopeia Chapter 2022	<b>Completed</b> 11Feb2021
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<b>Parameter</b> Salmonella	<b>Result</b> Not Detected per 10 g
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<b>ZMCKU - E. coli - USP &lt;2022&gt;</b>	<b>Reference</b> USP <2022>	<b>Completed</b> 11Feb2021
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<b>Parameter</b> Escherichia Coli	<b>Result</b> Not Detected per 10 g
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<b>ZMCKI - Staphylococcus aureus - USP &lt;2022&gt;</b>	<b>Reference</b> USP <2022>	<b>Completed</b> 10Feb2021
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<b>Parameter</b> Staphylococcus aureus	<b>Result</b> Not Detected per 10 g
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Respectfully Submitted,



 Demerest Swift  
 Technical Leader

UAS Laboratories, LLC

Ashley Lange  
555 North 72nd Avenue  
Wausau, WI 54401

## ANALYTICAL REPORT

AR-21-JL-001882-01

Client Code: JL0000186

PO Number: 18041

Received On: 03Feb2021

Reported On: 11Feb2021

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Results shown in this report relate solely to the item submitted for analysis. | Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. | All results are reported on an "As Received" basis unless otherwise stated. | Reports shall not be reproduced except in full without written permission of Eurofins Scientific, Inc. | All work done in accordance with Eurofins General Terms and Conditions of Sale: [www.eurofinsus.com/terms\\_and\\_conditions.pdf](http://www.eurofinsus.com/terms_and_conditions.pdf) | √ Indicates a subcontract test to a different lab. Lab(s) are listed at end of the report. For further details about the performing labs please contact your customer service contact at Eurofins. Measurement of uncertainty can be obtained upon request.



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26 Van Dyke Avenue  
New Brunswick, NJ 08901

**ATTN:** Ashok Mehta, Manaswi Patel

**TEL#** 732-926-7729 x 109

**FAX#**

### Sample Name: Immune Support Capsules

**Item#** **Lot#** 20L017  
**Lab#** 330311 **PO#**

Analysis:	Method:	Result:	Spec:	Pass/Fail:
Zinc (Amino Acid Chelate)	ICP/MS	5.19 mg/3 cap	5 mg	
Selenium (Amino Acid Chelate)	ICP/MS	0.112 mg/3 cap	0.1 mg	
Copper (Amino Acid Chelate)	ICP/MS	0.744 mg/3 cap	0.5 mg	
Manganese (Carbonate)	ICP/MS	0.454 mg/3 cap	6 mg	
Sodium (Na)	ICP/MS	31.84 mg/3 cap	80 mg	
Sodium Alginate (USP)	USP	586.30mg/3 cap	500 mg	
Organic Chlorella Identification (TLC)	SOP:3.8.577	Confirmed	ID Only	
Identification of Fucus vesiculosus (Thallus) (TLC)	SOP:3.8.350	Confirmed	ID Only	
Methylsulfonylmethane (MSM) (GC)	SOP:3.2.12	Confirmed	ID Only	
Beet Root Powder Identification (TLC)	SOP:3.8.338	Confirmed	ID Only	
Identification of Trifolium pretense (leaf) (TLC)	SOP:3.8.592	Confirmed	ID Only	
Identification of Taraxacum Officinale (root) (TLC)	SOP:3.8.373	Confirmed	ID Only	
Identification of Mahonia aquifolium (root) (TLC)	SOP:3.8.572	Confirmed	ID Only	
Silymarin (UV-Vis)	SOP:3.6.27	152.68 mg/3 cap	150 mg	
Alpha Lipoic Acid (HPLC)	SOP:3.1.80	63.57 mg/3 cap	50 mg	
Average fill weight (based on 10)		782.70 mg/capsule		



Approved by: \_\_\_\_\_

*Wendi Wang*  
Wendi Wang, PhD, President



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:*

### ***Advanced Botanical Consulting & Testing, Inc.***

***1169 Warner Ave., Tustin, CA 92780  
17031 Daimler Street, Irvine, CA 92614***

*(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:*

### **ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

### ***Chemical and Microbiological Testing (As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*Initial Accreditation Date:*

October 19, 2018

*Issue Date:*

December 23, 2020

*Expiration Date:*

December 31, 2022

*Accreditation No.:*

100092

*Certificate No.:*

L20-772

*The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: [www.pjilabs.com](http://www.pjilabs.com)*



# Certificate of Accreditation: Supplement

## Advanced Botanical Consulting & Testing, Inc.

1169 Warner Avenue, Tustin, CA 92780

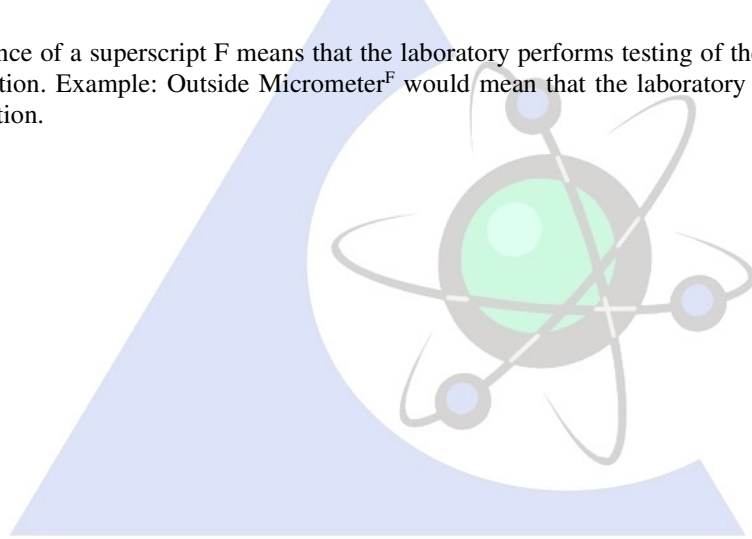
17031 Daimler Street, Irvine, CA 92614

Contact Name: Joseph Dennis Phone: (714) 259-0384

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical <sup>F</sup>	Dietary Supplements, Nutraceuticals, and Food	Residual Solvents	LSOP 3.2.29	LoQ: 10 ppm
		Fatty Acids: Methyl Esters Ethyl Esters	LSOP 3.2.8	
			LSOP 3.2.9	
		Vitamins Assay: Fat Soluble	LSOP 3.1.334	LoQ: 50 ppm
		Vitamins Assay: Water Soluble	LSOP 3.1.335	
		Elemental Impurities	LSOP 3.12.3	LoQ: 1 ppm
Microbiological <sup>F</sup>		Total Plate Count	LSOP 3.10.4	LoQ: 5 CFU/g
		Yeast & Mold	LSOP 3.10.5	

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.







SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EUROFINS FOOD CHEMISTRY TESTING MADISON, INC.  
6304 Ronald Reagan Ave.  
Madison, WI 53704-2523  
Hollis Cloninger Phone: 608-949-3073

CHEMICAL

Valid to: October 31, 2021

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 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 and Technology</u>	<u>References</u>
CAFR	Caffeine, Theobromine, and Theophylline by High Performance Liquid Chromatography	Blauch, J.L., Tarka, S.M., “HPLC Determination of Caffeine and Theobromine in Coffee, Tea, and Instant Hot Cocoa Mixes”, <i>Journal of Food Science</i> , 48(3):745-747 (1983) (Modified).
CALC_EU	CALC_EU: Calories Calculation for Europe	Regulation EU 1169/2011 of the European Parliament and of the council, Official Journal of the European Union. 22.11.2011
CANN_SOL	Determination of Gases and Solvents in Hemp Based Matrices by Headspace Gas Chromatography with Mass Spectrometry Detection 1,2-Dichloroethane 1-Propanol 2,2,3-Trimethylbutane 2,2-Dimethylbutane 2,2-Dimethylpentane 2,3-Dimethylbutane 2,3-Dimethylpentane 2,4-Dimethylpentane 2-Methylhexane 2-Methylpentane 3,3-Dimethylpentane 3-Ethylpentane 3-Methylhexane 3-Methylpentane Acetone Acetonitrile	Internally Developed Method

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	Benzene Chloroform Diethyl Ether Ethanol Ethyl Acetate Ethylene Oxide Isobutane (2-Methylpropane) Isopropanol (2-Propanol) Methanol Methylene Chloride n-Butane n-Heptane n-Heptane n-Hexane n-Pentane n-Pentane Propane Toluene Trichloroethylene Xylenes-1 (Ethylbenzene) Xylenes-2 (m-, p-Xylene) Xylenes-3 (o-Xylene)	
CHLORATE	Determination of Chlorate and Perchlorate by Liquid Chromatography Tandem Mass Spectrometry	Anastassiades, M.; Kolberg, D.I.; Benkenstein, A.; Eichhorn, E.; Zechmann, S.; Mack, D.; Wildgrube, C.; Sigalov, I.;  Dörk, D.; Barth, A. "Quick Method for the Analysis of Numerous Highly Polar Pesticides in Foods of Plant Origin via LC-MS/MS Involving Simultaneous Extraction with Methanol (QuPPE-Method)" EU Reference Laboratory for Pesticides Requiring Single Residue Methods (EURL-SRM), version 9: 1-68 (2016)
DTC	DTC LCMS/ MS Analysis of Dithiocarbamate Pesticides for USP_EP Limit Compliance	Hayama, T. and Takada, M., "Simple and Rapid Method for the Determination of Ethylenebisdithiocarbamate Fungicides in Fruits and Vegetables Using Liquid Chromatography with Tandem Mass Spectrometry," Analytical and Bioanalytical Chemistry, 392(5):969-976 (2008), (Modified).
GLY_AMPA	Quantification of Glyphosate and AMPA in Raw Agricultural and Finished Products	Internally Developed Method

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MEBR	Bromine Containing Fumigants Determined as Total Inorganic Bromide	Community Reference Laboratory for Single Residue Methods, CVUA, Stuttgart, Schaflandstr. 3/2, 70736 Fellbach, Germany.  Reporting Limits: USP <561>, Articles of Botanical Origin and EP 2.8.13 Pesticide Residues.  Method validation and quality control procedures for pesticide residues analysis in food and feed, Document No. SANCO/12495/2011 (supersedes Documents No. SANCO/10684/2009, SANCO/2007/3131 and SANCO/10232/2006), EC Directorate General for Health and Consumer Affairs (SANCO), 1 Jan 2012.
MP- AN_AAULC	Amino Acid Profile and Absence Verification Analysis in Metabolic Products and Premixes by UHPLC	Client Supplied Method
MP- LCAT	Vitamin E, Tocopherols, Tocotrienols by Ultra or High-Performance Liquid Chromatography	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-ACMS	Determination of Acrylamide by HPLC-LC/MS/MS	Musser, SM, "Detection and Quantitation of Acrylamide in Foods," U.S. Department of Health and Human Services, Food and Drug Administration [Online] (February 2003) (Modified);  Scheuerell C.R., Hughes, D.L., Sullivan, D.M., Wehrmann, J.R. "The Analysis of Acrylamide in Foods Using LC-MS/MS," Presented at the 116th AOAC International Annual Meeting & Exposition (September 2002)
MP-ACMS2	Determination of Acrylamide in Foods by HPLC-LC/MS/MS	European Standard EN 16618:2015. Food analysis – Determination of acrylamide in food by liquid chromatography tandem mass spectrometry (LC-ESI-MS/MS). (Modified)
MP-AN_2FL	2' Fucosyllactose Determination by HPAEC/PAD	Client Supplied Method
MP-AN_CAR	Determination of B-Carotene and Lycopene by HPLC	Client Supplied Method

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-AN_FSIE	Fluoride by Selective Ion Electrode	Client Supplied Method
MP-AN_GOSIF	GOS in Infant Formula by HPAEC-PAD	Internally Developed Method
MP-AN_HMB	Hydroxy-3-methylbutyric Acid by HPLC	Client Supplied Method
MP-AN_LUT	Lutein Determination by HPLC	Client Supplied Method
MP-AN_PMX	Cr, Mn, Fe, Cu, Zn, Se and Mo in Premixes by ICP/MS	Internally Developed Method
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-ANID	P-Anisidine Value	AOCS Cd 18-90; USP <401>
MP-ANNUC_EQ	Determination of Ribonucleotide Equivalents in Nutritional Products	Client Supplied 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-ASHM	Ash	AOAC 923.03 (Modified)
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-B12LC	Vitamin B12 in Infant Formulas, Adult Nutritionals and Dietary Supplements by HPLC	AOAC 2011.10 (Modified)
MP-B1B2B6	Thiamine, Riboflavin and Pyridoxine by HPLC	Client Supplied Method
MP-B2FV-MA	Riboflavin (B2)	AOAC 940.33, 960.46 (Modified)

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
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-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">ttp://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-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-BHAL-MA	BHA, BHT, and TBHQ by GC	AOAC 968.17 (Modified)
MP-BIDE-MA	Thiamin (B1)	AOAC 942.23, 953.17, and 957.17 (Modified)
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-BLCMS	Analysis of B-Vitamins by LC/MS/MS in Infant Formula and Dietary Supplement	Internally Developed Method

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
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-CARCOL	Free and Total Carnitine and Choline by LC/MS/MS	AOAC 2015.10
MP-CFAT-MA MP-CALC-MA	Calories and Calories from Fat	Code of Federal Regulations, Title 21, Part 101.9, pp. 24-25
MP-CHOK	Cholesterol	AOAC 994.10 (Modified)
MP-CHO-MA	Carbohydrates	United States Department of Agriculture, "Energy Value of Foods," Agriculture Handbook No. 74, pp. 2-11 (1973)
MP-Density	Density of Liquid Matrices Using a Density Meter	AOAC Official Method 988.06, Specific Gravity of Beer and Wort Digital Density Meter method. (Modified).
MP-DGEN	Protein Dumas Method	AOAC 968.06, 992.15 (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
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-FAT_AH	Fat by Acid Hydrolysis	AOAC 922.06, 954.02, 925.32, and 933.05 (Modified)
MP-FAT_BH	Fat by Alkaline Hydrolysis	AOAC 932.06, 989.05, 986.25, and 945.48B (Modified)
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)
MP-FOAP-MA	Folic Acid by the Microbiological Method	AOAC 944.12, 960.46 (Modified)

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
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-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-GLRL	Glycerol Analysis by Gas Chromatography	Internally Developed Method
MP-GOSINT	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-ICP	Ca, Cu, Fe, K, Mg, Mn, Na, P and Zn by ICP	AOAC 984.27, 985.01 and 2011.14 (Modified)
MP-ICP_MS	As, Cd, Pb, Hg, Sn, Sb and Ni by ICP/MS	AOAC 2011.19 (Modified), 993.14 (Modified)



<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-IHCBD	Cannabinoids by LC with DAD-UV Detection Cannabidivarinic Acid Cannabidiol Cannabidiolic Acid Cannabigerolic Acid Cannabigerol Cannabidiol Tetrahydrocannabivarin Tetrahydrocannabivarinic Acid Cannabinolic Acid Cannabinol delta9-Tetrahydrocannabinol delta8-Tetrahydrocannabinol Tetrahydrocannabinolic Acid Cannabicyclol Cannabichromenic Acid Cannabichromene	Quantitation of Cannabinoids in Cannabis Dried Plant Materials and Concentrates Using Liquid Chromatography- Diode Array Detection Technique with Optional Mass Spectrometric Detection. AOAC SMPR 2017.001 and SMPR 2017.002
MP-INOSAOAC	Myo-Inositol by HPLC, Column Switching and Pulsed Amperometry	AOAC 2011.18
MP-IODICPMS	Iodine by ICP/MS	AOAC 2012.15
MP-IODISE	Iodine by Ion Selective Electrode	AOAC 992.24 (Modified)
MP-ISDF	Insoluble, Soluble and Total Dietary Fiber (Lee)	AOAC 991.43 (Modified)
MP-KRST-MA	Resistant Starch	AOAC 2002.02
MP-LLPAH	Determination of 9 polycyclic Aromatic Hydrocarbons by GC/MS/MS	Internally Developed Method
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-LUTE_IF	Lutein in Infant Formula and Adult Nutritional by HPLC	Internally Developed Method
MP-M100_T100	Moisture	AOAC 925.09, 926.08 (Modified)



<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-M60_T60	Moisture	AOAC 925.45 (Modified)
MP-M70_T70	Moisture	AOAC 934.06 (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-MELCYA	Cyanuric Acid and Melamine by UHPLC-MS/MS	Internally Developed Method
MP-MUDA	Moisture in Meat	AOAC 950.46 (Modified)
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 Material including Hemp and Hemp Products	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-NIAP-MA	Niacin/Niacinamide (Nicotinic Acid/Nicotinamide) by the Microbiological Method	AOAC 944.13, 960.46 (Modified)
MP-NO2NO3	Nitrite and Nitrate in Food and Beverages	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);  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);  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)
MP-NUTD	Nucleotides by HPLC	Internally Developed Method
MP-OSMO	Osmolality	Vapro Operating Manual for Vapor Pressure Osmometer Model 5600 (2010)
MP-PANN	Vitamin B5 by the Microbiological Method	AOAC 945.74, 992.07, 960.46 (Modified)

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-PATULIN	Patulin Screen in Raw Fruits and Finished Products Containing Fruits by UHPLC- MS/MS	Internally Developed Method
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)
MP-PHAL	pH	AOAC 981.12 (Modified); FCC<Appendix II> (Modified); USP <791> (Modified)
MP-PTUETU	Propylene Thiourea and Ethylene Thiourea in Infant Formulas, Related Raw Materials and Foods by UHPLCMS/ MS	Eurofins Developed Method
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-SALT	Chloride	AOAC 963.05, 971.27, 986.26 (Modified)
MP-SEIF	Simultaneous Determination of Chromium, Selenium and Molybdenum by ICP-MS	AOAC 2011.19
MP-SEMSPLUS	Cr, Mo, Se by ICP/MS	AOAC 2011.19 (Modified)
MP-SFLC-MA	Fibersol by HPLC	AOAC 2001.03 (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-SGLC	Sugar Profile by HPLC	AOAC 982.14 (Modified)
MP-SPGP	Density	NIST Handbook 133 – Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)

<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-SUGX-MA	Sugar Alcohols by HPAEC	Internally Developed Method
MP-TAALC	Total Amino Acids by HPLC	<p>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);</p> <p>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);</p> <p>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);</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>

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
MP-TAUR_LC	Taurine by HPLC	AOAC 999.12 (Modified); 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); 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); 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-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-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-TDFM	Insoluble, Soluble, and Total Dietary Fiber (Codex Definition) by Enzymatic Gravimetric Method and Liquid Chromatography	AOAC 2009.01, 2011.25 (Modified)
MP-TDF-MA	Dietary Fiber (Prosky)	AOAC 985.29 (Modified)
MP-TDFR-MA	Total Dietary Fiber (LEE)	Client Supplied Method
MP-TERPENES	Terpene Headspace Profile by GCMS Pinene, alpha- Camphene Pinene, beta- Carene, (+)-3- Myrcene, beta- Terpinene, alpha- Limonene, (-) Eucalyptol Ocimene, (Z)-beta- Terpinene, gamma-	Eurofins Developed Method

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
	Ocimene, (E)-beta-Cymene, p-Terpinolene Linalool Isopulegol, (-) Caryophyllene, trans- (beta-caryophyllene) Humulene, alpha- (alpha-caryophyllene) Bisabolol, alpha-	
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-VALC	Determination of Vitamin A by UHPLC/HPLC	AOAC 992.04, 992.06, and 2001.13
MP-VCF	Vitamin C	AOAC 967.22 (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)
MP-VITAE_IF	Vitamin A and E in Milk-Based Infant Formula by HPLC	AOAC 992.03, 992.06 (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)
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).

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
PEST_IF	Pesticide Screen Panel in Hemp and Infant Formula	Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (Modified).  CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using  GC-MS and/or LCMS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.
PEST_SCRN	Multi-residue Analysis of Over 500 Pesticides by GC-MS/MS and LC-MS/MS	Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (Modified).  CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LCMS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.
PEST_SCRN	Pesticide Screen Panel in Hemp and Infant Formula for BCC USP List Acephate Alachlor Aldrin Azinphos-ethyl Azinphos-methyl Bromophos-ethyl Bromophos-methyl Bromopropylate Chlordane, cis- Chlordane, trans- Chlorfenvinphos (E- and Z-isomers) Chlorpyrifos Chlorpyrifos-methyl Cyfluthrin Cyhalothrin - lambda Cypermethrin Dacthal (Chlorthal-dimethyl,DCPA) DDD, o,p'- DDD, p,p'- DDE, o,p'- DDE, p,p'- DDT, o,p'- DDT, p,p'- Deltamethrin	Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (Modified).  CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LCMS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS meth

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	Diazinon Dichlofluanid Dichlorvos Dicofol Dieldrin Dimethoate Ethion Etrimfos Fenchlorphos (Ronnel) Fenitrothion Fenpropathrin Fensulfothion Fenthion Fenvalerate/Esfenvalerate (sum of isomers) Flucythrinate (sum of isomers) Fluvalinate, tau- (sum of isomers) Fonofos Heptachlor Hexachlorobenzene (HCB) Lindane (gamma-HCH, gamma-BHC) Malathion Mecarbam Methacrifos Methamidophos Methidathion Methoxychlor Mirex Monocrotophos Oxychlorane Paraoxon Paraoxon-methyl Parathion Parathion-methyl Pendimethalin Pentachloroanisole Permethrin (sum of isomers) Phosalone Phosmet Piperonyl butoxide Pirimiphos-ethyl Pirimiphos-methyl Procymidone Profenofos Prothiofos Pyrethrum (total) Quinalphos Quintozene	



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	(Pentachloronitrobenzene) S421 Tecnazene Tetradifon Vinclozolin	
PEST_SCRN (PEST_HEMP)	Multi-residue analysis of over 500 pesticides by GC-MS/MS and LC-MS/MS in hemp products including dried plant, finished products and oils Abamectin Acephate Acequinocyl Acetamiprid Acetochlor Acibenzolar-S-methyl Aclonifen Acrinathrin Alachlor Aldicarb Aldicarb sulfone (Aldoxycarb) Aldicarb sulfoxide Aldrin Allethrin Ametryn Aminocarb Amitraz metabolite DMF Anilofos Atrazine Azaconazole Azamethiphos Azoxystrobin Beflubutamid Benalaxyl Bendiocarb Benfluralin Benoxacor Benzoximate Bifenazate Bifenox Bifenthrin Bitertanol Bixafen Boscalid Bromacil Bromophos-ethyl Bromophos-methyl Bromopropylate Bromoconazole (2	Official Methods of Analysis, AOAC Official Method 2007.01, Pesticides Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL  CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LCMS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.





<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	diastereoisomers) Bupirimate Buprofezin Buprofezin Butachlor Butafenacil Butocarboxim sulfoxide Butylate Cadusafos Captan (as THPI - Tetrahydrophalimide) Carbaryl Carbendazim Carbetamide Carbofuran Carbofuran-3-hydroxy- Carbophenothion Carboxin Carfentrazone-ethyl Chlorantraniliprole Chlorbromuron Chlordane, cis- Chlordane, trans- Chlorfenapyr Chlorfenvinphos (E- and Z- isomers) Chloridazon (Pyrazon) Chlorobenzilate Chlorotoluron (Chlortoluron) Chloroxuron Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Clodinafop-propargyl Clofentezine Clomazone Cloquintocet-mexyl Clothianidin Coumaphos Cyanazine Cyanofenphos Cyazofamid Cycloate Cycluron Cyflufenamid Cyfluthrin Cymoxanil Cypermethrin Cyproconazole (2 diastereoisomers)	

<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
	Cyprodinil Dacthal (Chlorthal-dimethyl) Daminozide DDD, o,p'- DDD, p,p'- DDE, o,p'- DDE, p,p'- DDT, o,p'- DDT, p,p'- 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 Dicrotophos Dieldrin Diethofencarb Difenoconazole (2 diastereoisomers) Dimethachlor Dimethametryn Dimethenamid Dimethoate Dimethomorph (E- and Z- isomers) Dimetilan Dimoxystrobin Diniconazole Dinitramine Dinotefuran Dioxacarb Diphenamid Diphenylamine Dipropetryn Disulfoton Disulfoton sulfone Disulfoton sulfoxide DMST (Dimethylaminosulfotoluidide) Endosulfan I (alpha- isomer)	



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	Endosulfan II (beta-isomer) Endosulfan sulfate EPN Epoxiconazole Ethaboxam Ethalfluralin Ethidimuron (Sulfadiazole) Ethiofencarb Ethiofencarb sulfone Ethiofencarb sulfoxide Ethion Ethiprole Ethirimol Ethoprophos (Ethoprop) Etofenprox Etoxazole Etrimfos Famoxadone Fenamidone Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenchlorphos (Ronnel) Fenchlorphos oxon Fenhexamid Fenitrothion Fenobucarb Fenoxanil (sum of isomers) Fenoxycarb Fenpropathrin Fenpyroximate Fensulfothion Fensulfothion oxon Fensulfothion oxon sulfone Fensulfothion sulfone Fenthion Fenthion oxon Fenthion oxon sulfone Fenthion oxon sulfoxide Fenthion sulfone Fenthion sulfoxide Fentrazamide Fenuron Fenvalerate/Esvalerate (sum of isomers) Fipronil	



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	Fipronil desulfinyl Fipronil sulfone Flonicamid Fluazifop-butyl Fludioxonil Flufenacet Flufenoxuron Flumioxazin Fluometuron Fluopicolide Fluopyram Fluoxastrobin Fluquinconazole Fluridone Flusilazole Flutolanil Flutriafol Fluvalinate, tau- (sum of isomers) Fluxapyroxad Fonofos Forchlorfenuron Formothion Fosthiazate (sum of isomers) Furalaxyl Furathiocarb Griseofulvin 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 Hydroprene, S- (sum of isomers) Imazalil Imazamethabenz-methyl Imidacloprid Indoxacarb Ipconazole Iprovalicarb Isocarbamid Isocarbophos Isofenphos Isofenphos-methyl	



<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
	Isoprocarb Isoprothiolane Isoproturon Isoxaben Isoxadifen-ethyl Isoxaflutole Isoxathion Kresoxim-methyl Lactofen Lenacil Lindane (gamma-HCH, gamma-BHC) Linuron Lufenuron Malaixon Malathion Mandipropamid Mecarbam Mepanipyrim Mepanipyrim-2-hydroxypropyl Mephosfolan Metalaxyl Metamitron Metazachlor Metconazole Methabenzthiazuron Methacrifos Methamidophos Methidathion Methiocarb Methiocarb sulfone Methiocarb sulfoxide Methomyl Methoprotryne Methoxychlor Methoxyfenozide Metobromuron Metolachlor Metolcarb Metoxuron Metrafenone Metribuzin Mevinphos (E- and Z- isomers) MGK 264 (sum of isomers) Mirex Molinate Monocrotophos Monolinuron Myclobutanil	



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	<p>           Naled (Dibrom)            Napropamide            Neburon            Nitrofen            Nonachlor, cis-            Nonachlor, trans-            Norflurazon            Norflurazon-desmethyl            Novaluron            Nuarimol            Ofurace            Omethoate            Oxadiazon            Oxadixyl            Oxamyl            Oxamyl oxime            Oxycarboxin            Oxychlordane            Oxydemeton-methyl            Paclobutrazol            Paraoxon            Paraoxon-methyl            Parathion            Parathion-methyl            Penconazole            Pencycuron            Pendimethalin            Pentachloroaniline            Pentachloroanisole            Pentachlorobenzene            Pentachlorobenzonitrile            Pentachlorothioanisole            Permethrin (sum of isomers)            Perthane            Phenmedipham            Phenthoate            Phorate            Phorate sulfone            Phorate sulfoxide            Phosalone            Phosmet            Phosmet oxon            Phosphamidon (E- and Z- isomers)            Picoxystrobin            Piperonyl butoxide            Piperophos            Pirimicarb            Pirimicarb-desmethyl            Pirimiphos-ethyl         </p>	



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	Pirimiphos-methyl Pirimiphos-methyl, N-desethyl- Prallethrin Pretilachlor Prochloraz Procymidone Prodiamine Profenofos Promecarb Prometon Prometryn Propanil Propaquizafop Propargite Propetamphos (Safrotin) Propham Propiconazole (sum of isomers) Propoxur Propyzamide (Pronamide) Prosulfocarb Prothioconazole-desthio Prothiofos Pymetrozine Pyracarbolid Pyraclostrobin Pyraflufen-ethyl Pyrazophos Pyrethrum (total) Pyridaben Pyridaphenthion Pyrimethanil Pyriproxyfen Pyroquilon Quinalphos Quinoclamine Quinoxifen Quintozene Quizalofop-ethyl Rotenone S421 Schradan (Octamethylpyrophosphoramide) Sebumeton Siduron Simazine Simeconazole Simetryn Spinetoram (spinosyns J and L) Spinosad (spinosyns A and D)	



<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
	Spirodiclofen Spiromesifen Spirotetramat Spiroxamine (2 diastereoisomers) Sulfallate Sulprofos Tebuconazole Tebuconazole Tebufenpyrad Tebupirimfos Tebuthiuron Tecnazene Tefluthrin Terbacil Terbufos Terbufos sulfone Terbufos sulfoxide Terbumeton Terbuthylazine Terbutryn Tetrachloroanisole, 2,3,4,5- Tetrachlorvinphos Tetraconazole Tetradifon Thiabendazole Thiabendazole-5-hydroxy- Thiacloprid Thiamethoxam Thiazopyr Thiobencarb (Benthiocarb) Thiodicarb Thiofanox sulfone Thionazin (Zinophos) Thiophanate-methyl Tolclofos methyl Tolfenpyrad Tolylfluanid Triadimefon Triazophos Tribufos (DEF) Trichlorfon (Metrifonate) Trichloroanisole, 2,4,6- Tricyclazole Trietazine Trifloxystrobin Triflumizole Triflumuron Trifluralin Triforine	





<b><u>Test Method</u></b>	<b><u>Test and Technology</u></b>	<b><u>References</u></b>
	Trimethacarb Triticonazole Uniconazole Vamidothion Vinclozolin Zoxamide	
PROPINEB	Propineb in Infant Formula, Related Raw Materials and Baby Food	Hayama, T. and Takada, M., "Simple and Rapid Method for the Determination of Ethylenebisdithiocarbamate Fungicides in Fruits and Vegetables Using Liquid Chromatography with Tandem Mass Spectrometry," Analytical and Bioanalytical Chemistry, 392(5):969-976 (2008), (Modified).
PSHERB1	Acidic Herbicides by UHPLCMS/MS	Internally Developed Method
SO2T	Sulfite	Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 990.28, AOAC INTERNATIONAL, Gaithersburg, MD, USA (2005) (Modified).
UPLC_FT	Taurine by Ultra Performance Liquid Chromatography	Laboratory Developed Method.
USPR	Class 1, 2a, 2b and 3	United States Pharmacopeia, 38th Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (Modified)
USPR	Residual Solvent Screen by Headspace GC with Mass Spec. Det., USPR	US Pharmacopeia USP 41, NF 36, Official from May 1, 2018, Residual Solvents <467> Organic Volatile Impurities, Identification, Control and Quantification of Residual Solvents. (Modified)
USPR_DIN	Residual Solvents - Class 2 Mix C, Class 3 DMSO	United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2016). (Modified).
VKIFAOAC	Trans and Total(cis+trans) Vitamin K1 in Infant Formula, Pediatric, and Adult Nutritionals	AOAC 2015.09 (Modified)
VD_01	Determination of Veterinary Drug Residues in Infant Formula and its Related Ingredients by UHPLCMS/MS	Robert, C., Gillard, N., Brasseur, P. Y., Pierret, G., Ralet, N., Dubois, M., and Delahaut, Ph., "Rapid multiresidue and multiclass qualitative screening for veterinary drugs in foods of animal origin by UHPLCMS/MS", Food Additives and Contaminants, Part A 30(3):443457 (2013).  Kaufmann, A., Butcher, P., Maden, K., Walker, S., and Widmer, M., "Multiresidue quantification of veterinary drugs in milk with a novel extraction and cleanup technique: Salting out supported liquid extraction (SOSLE)", Analytical Chimica Acta 820:5668 (2014).

<u>Test Method</u>	<u>Test and Technology</u>	<u>References</u>
WN_PHOS	Phospholipids by HPLC/ELSD	<p>Giuffrida F., Braun M., Flück B., Cotting C., Monard F., Quantification of phospholipids in infant formula and growing up milk by high-performance liquid chromatography coupled to evaporative light scattering detector, Journal of AOAC INTERNATIONAL Vol.93, No. 3, 2010, page 948 – 955.</p> <p>Braun M., Phospholipid analysis in infant formulae by HPLC, R&amp;D Report KR-TR960027, 1996.</p> <p>Giuffrida F. and Monard F. - NRC; Braun M. and Flück B. PTC/K; Analysis of phospholipids in butter milk powder: NMR and HPLC-ELSD method comparison, NRC NOTE 3. November 2009.</p> <p>Braun M., Flück B., Phospholipid composition HPLC/ELSD, PTC/K Laboratory Instruction AS-INC-096.03, 2008.</p> <p>Mathews BT, Higgins PD, Lyons R, Michell JC, Sach NW, Snowden MJ, Taylor MR, Wright AG, Improving Qualitative Measurements for the Evaporated Light Scattering Detector, Chromatographia, 2004, 60, December No 11/12, page 625-633.</p> <p>Heinze T, Kynast G, Dudenhausen JW, Schmitz C, Saling E, Quantitative determination of phospholipids in amniotic fluid by HPLC, Chromatographia Vol 25, 1988, page 497-503.</p>

<u>Abbreviations used in References</u>	
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 17025:2017 *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 21<sup>st</sup> day of October 2019.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2918.01  
Valid to October 31, 2021

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