CHARLOTTE'S WEB
STANLEY BROTHERS

Certificate of Analysis: Density

Sample Name:	A01232		
Sample Description:	17 mg Olive Oil 30 mL		
Lab Name:	Charlotte's Web QC Lab, 700 Tech Ct., Louisville, CO 80027, Room 203	**Sample Analyzed By:**	Leewaphath Xaiyasang
		Test Method ID:	MTH-002 R2
Customer:	Charlotte's Web	**Date Sample Received:**	13-Feb-23
Contact:	Richard Wright, qateam@charlottesweb.com	**Date Sample Analyzed:**	13-Feb-23

Analysis	Result (g/mL)
Manual Density Measurement	0.920

This information is a portion of the complete report; contact the lab for more information. Results only apply to the received sample in the condition it was received. This certificate of analysis shall not be reproduced, except in full, without the prior written consent of CWB Holdings LLC.

Additions/Deviations/Exclusions/Comments:

N/A

Approvals

Role	Print Name	Signature	Date
Analyst	Eric Webb	Eric B. Webb	13Feb23
Peer Reviewer	Morgan Stock	Mg Stock	13Feb23

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Formerly Botanacor Labs

Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

Prepared for:

CWB HOLDINGS, INC

17mg Organic Olive Oil 30mL

Batch ID or Lot Number:	Test:	Reported:	Location:
A01232 - Composite	**Potency**	**2/16/23**	700 Tech Ct. Louisville, CO 80027

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000235518	2/15/23	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	02/14/2023 @ 11:22 AM	N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.063	0.63
Cannabidiolic acid (CBDA)	0.020	0.058	ND	ND
Cannabidiol (CBD)	0.019	0.057	2.335	23.35
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.019	0.061	ND	ND
Cannabinolic Acid (CBNA)	0.011	0.035	ND	ND
Cannabinol (CBN)	0.005	0.016	ND	ND
Cannabigerolic acid (CBGA)	0.016	0.051	ND	ND
Cannabigerol (CBG)	0.004	0.012	0.028	0.28
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.043	ND	ND
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND
Cannabidivarin (CBDV)	0.005	0.013	0.014	0.14
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND
Cannabichromene (CBC)	0.007	0.022	0.056	0.56
Total Cannabinoids			**2.496**	**24.96**
Total Potential THC**			0.063	0.63
Total Potential CBD**			2.335	23.35

Notes

total THC per container (10mL)=6.3mg
total THC per container (30mL)=18.9mg
total THC per container (100mL)=63.0mg
total THC per serving (1mL)=0.6mg

K Winternheimer — Karen Winternheimer, 16-Feb-23, 3:13 PM — PREPARED BY / DATE

Samantha Smith — Sam Smith, 16-Feb-23, 3:19 PM — APPROVED BY / DATE

Definitions

% = (Weight of Analyte / Weight of Product)
** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step:
Total THC = THC + (THCA *(0.877)) and
Total CBD = CBD + (CBDA *(0.877))
Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
ND = None Detected (Defined by Dynamic Range of the method)

CDPHE Certified

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. All decision rulings are in accordance with the MRD and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01

Certificate #4329.02

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CERTIFICATE OF ANALYSIS

Prepared for:

17mg Organic Olive Oil 30mL

CWB HOLDINGS, INC

Batch ID or Lot Number:	Test:	Reported:	Location:
A01232 - Composite	**Microbial Contaminants**	**2/17/23**	700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000235519	Started: 2/14/23	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 02/14/2023 @ 11:22 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	2.0x10^3 - 3.0x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	1.0x10^2 - 1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	2.0x10^2 - 3.0x10^4 CFU/g	None Detected
STEC	TM-25, PCR	10^0 CFU/25 g	N/A	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	N/A	Absent

Notes

Free from visual mold, mildew, and foreign matter

Brianne Maillot
2/17/2023
11:10:00 AM

PREPARED BY / DATE

Philip Travisano
2/17/2023
11:48:00 AM

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation
CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*
* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:
10^2 = 100 CFU
10^3 = 1,000 CFU
10^4 = 10,000 CFU
10^5 = 100,000 CFU

CDPHE Certified

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CERTIFICATE OF ANALYSIS

Prepared for:

CWB HOLDINGS, INC

17mg Organic Olive Oil 30mL

Batch ID or Lot Number:	Test:	Reported:	Location:
A01232 - Composite	**Mycotoxins**	**2/17/23**	700 Tech Ct. Louisville, CO 80027

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000235521	2/16/23	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	02/14/2023 @ 11:22 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.1 - 134.7	ND	N/A
Aflatoxin B1	0.6 - 33	ND	
Aflatoxin B2	0.6 - 33	ND	
Aflatoxin G1	0.6 - 33.4	ND	
Aflatoxin G2	0.6 - 33.6	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smith
Sam Smith
17-Feb-23
6:47 AM
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
17-Feb-23
6:51 AM
APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02

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CERTIFICATE OF ANALYSIS

Prepared for:

CWB HOLDINGS, INC

17mg Organic Olive Oil 30mL

Batch ID or Lot Number:	Test:	Reported:	Location:
A01232 - Composite	**Metals**	**2/17/23**	700 Tech Ct. Louisville, CO 80027

Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000235520	2/16/23	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	02/14/2023 @ 11:22 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.049 - 4.89	ND	
Cadmium	0.047 - 4.74	ND	
Mercury	0.043 - 4.30	ND	
Lead	0.039 - 3.87	ND	

Samantha Smith

Sam Smith
17-Feb-23
1:27 PM

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
17-Feb-23
1:32 PM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02

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Report Number:	**3982068-0**
Report Date:	**21-Feb-2023**
Report Status:	**Final**

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

Sample Name:	**A01232 - Composite**	**Eurofins Sample:**	**12642706**
Project ID	CHARLO_WEB-20230213-0040	**Receipt Date**	15-Feb-2023
PO Number	QC 325	**Receipt Condition**	Ambient temperature
Description	17mg Organic Olive Oil 30mL MFG: February 7 2023 Expiration: February 7 2025	**Login Date**	13-Feb-2023
		Date Started	16-Feb-2023
		Sampled	Sample results apply as received
		Online Order	901-2023-E009008

Analysis	**Result**
Glyphosate and AMPA	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	**Limit**	**Result**	**Pass/Fail**
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices			
Category I Residual Solvent or Processing Chemical			
1,2-Dichloroethane	1.0 ppm	<1.0 ppm	Pass
Benzene	1.0 ppm	<1.0 ppm	Pass
Chloroform	1.0 ppm	<1.0 ppm	Pass
Ethylene Oxide	25.0 ppm	<25.0 ppm	Pass
Methylene Chloride	1.0 ppm	<1.0 ppm	Pass
Trichloroethylene	1.0 ppm	<1.0 ppm	Pass
The BCC limit of 1 ppm for Ethylene Oxide is not achieved by this method. Reporting limit of 25 ppm is the limit recommended by the AOAC CASP.		-	
Category II Residual Solvent or Processing Chemical			
Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass
Acetonitrile	410 ppm	<200 ppm	Pass
Ethanol	5000 ppm	<1000 ppm	Pass
Ethyl Acetate	5000 ppm	<500 ppm	Pass
Ethyl Ether	5000 ppm	<500 ppm	Pass
Methanol	3000 ppm	<500 ppm	Pass
Butane	5000 ppm	<500 ppm	Pass
Heptane	5000 ppm	<50.0 ppm	Pass
Hexane	290 ppm	<30.0 ppm	Pass
Pentane	5000 ppm	<25.0 ppm	Pass
Propane	5000 ppm	<1000 ppm	Pass
Toluene	890 ppm	<90.0 ppm	Pass
Xylenes (ortho-, meta-, para-)	2170 ppm	<160 ppm	Pass

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700 Tech Court
Louisville Colorado 80027 United States

Sample Name:	**A01232 - Composite**	**Eurofins Sample:**	**12642706**
Project ID	CHARLO_WEB-20230213-0040	**Receipt Date**	15-Feb-2023
PO Number	QC 325	**Receipt Condition**	Ambient temperature
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		Online Order	901-2023-E009008

Analysis	Limit	Result	Pass/Fail
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices			
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.		-	
Summed Group 1 (Butanes)			
Isobutane (2-Methylpropane)		<500 ppm	
Summed Group 2 (Heptanes)			
2,2,3-Trimethylbutane		<50.0 ppm	
2,3-Dimethylpentane		<50.0 ppm	
2,4-Dimethylpentane		<50.0 ppm	
2-Methylhexane		<50.0 ppm	
3,3-Dimethylpentane		<50.0 ppm	
3-Ethylpentane		<50.0 ppm	
3-Methylhexane		<50.0 ppm	
Summed Group 3 (Petroleum Ether)			
2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	
Summed Group 4 (Xylenes)			
Xylenes-1 (Ethylbenzene)		<40.0 ppm	
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Abamectin	0.3 mg/kg	<0.10 mg/kg	Pass
Acephate	5 mg/kg	<0.01 mg/kg	Pass
Acequinocyl	4 mg/kg	<0.50 mg/kg	Pass
Acetamiprid	5 mg/kg	<0.01 mg/kg	Pass
Aldicarb	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<0.01 mg/kg	Pass
Bifenazate	5 mg/kg	<0.01 mg/kg	Pass
Bifenthrin	0.5 mg/kg	<0.10 mg/kg	Pass
Boscalid	10 mg/kg	<0.01 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.02 mg/kg	Pass

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	MFG: February 7 2023	**Date Started**	16-Feb-2023
	Expiration: February 7 2025	**Sampled**	Sample results apply as received
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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Carbofuran	0.1 mg/kg	<0.01 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<0.02 mg/kg	Pass
Chlorfenapyr	0.1 mg/kg	<0.50 mg/kg	Pass
Chlorpyrifos	0.1 mg/kg	<0.05 mg/kg	Pass
Clofentezine	0.5 mg/kg	<0.01 mg/kg	Pass
Coumaphos	0.1 mg/kg	<0.01 mg/kg	Pass
Cyfluthrin	1 mg/kg	<0.50 mg/kg	Pass
Cypermethrin	1 mg/kg	<0.50 mg/kg	Pass
Diazinon	0.2 mg/kg	<0.02 mg/kg	Pass
Dichlorvos	0.1 mg/kg	<0.05 mg/kg	Pass
Dimethoate	0.1 mg/kg	<0.01 mg/kg	Pass
Dimethomorph	20 mg/kg	<0.10 mg/kg	Pass
Ethoprophos	0.1 mg/kg	<0.01 mg/kg	Pass
Etofenprox	0.1 mg/kg	<0.02 mg/kg	Pass
Etoxazole	1.5 mg/kg	<0.01 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.01 mg/kg	Pass
Fenpyroximate	2 mg/kg	<0.02 mg/kg	Pass
Fipronil	0.1 mg/kg	<0.01 mg/kg	Pass
Flonicamid	2 mg/kg	<0.02 mg/kg	Pass
Fludioxonil	30 mg/kg	<0.01 mg/kg	Pass
Hexythiazox	2 mg/kg	<0.05 mg/kg	Pass
Imazalil	0.1 mg/kg	<0.01 mg/kg	Pass
Imidacloprid	3 mg/kg	<0.01 mg/kg	Pass
Kresoxim-methyl	1 mg/kg	<0.15 mg/kg	Pass
Malathion	5 mg/kg	<0.01 mg/kg	Pass
Metalaxyl	15 mg/kg	<0.01 mg/kg	Pass
Methiocarb	0.1 mg/kg	<0.01 mg/kg	Pass
Methomyl	0.1 mg/kg	<0.02 mg/kg	Pass
Mevinphos	0.1 mg/kg	<0.02 mg/kg	Pass
Myclobutanil	9 mg/kg	<0.01 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Naled	0.5 mg/kg	<0.02 mg/kg	Pass
Oxamyl	0.2 mg/kg	<0.05 mg/kg	Pass
Paclobutrazol	0.1 mg/kg	<0.01 mg/kg	Pass
Methyl parathion	0.1 mg/kg	<0.05 mg/kg	Pass
Permethrin	20 mg/kg	<0.10 mg/kg	Pass
Phosmet	0.2 mg/kg	<0.05 mg/kg	Pass
Piperonylbutoxide	8 mg/kg	<0.05 mg/kg	Pass
Prallethrin	0.4 mg/kg	<0.50 mg/kg	Pass
Propiconazole (sum of isomers)	20 mg/kg	<0.05 mg/kg	Pass
Propoxur	0.1 mg/kg	<0.01 mg/kg	Pass
Pyridaben	3 mg/kg	<0.02 mg/kg	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.05 mg/kg	Pass
Spinetoram	3 mg/kg	<0.01 mg/kg	Pass
Spinosad	3 mg/kg	<0.01 mg/kg	Pass
Spiromesifen	12 mg/kg	<0.02 mg/kg	Pass
Spirotetramat	13 mg/kg	<0.01 mg/kg	Pass
Spiroxamine	0.1 mg/kg	<0.01 mg/kg	Pass
Tebuconazole	2 mg/kg	<0.01 mg/kg	Pass
Thiacloprid	0.1 mg/kg	<0.01 mg/kg	Pass
Thiamethoxam	4.5 mg/kg	<0.01 mg/kg	Pass
Trifloxystrobin	30 mg/kg	<0.01 mg/kg	Pass
Cyantraniliprole		<0.010 mg/kg	
Allethrin		<0.10 mg/kg	
Atrazine		<0.01 mg/kg	
Buprofezin		<0.02 mg/kg	
Clothianidin		<0.02 mg/kg	
Cyhalothrin, lambda-		<0.50 mg/kg	
Cyprodinil		<0.01 mg/kg	
Deltamethrin		<0.10 mg/kg	
Dinotefuran		<0.05 mg/kg	

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Certificate of Analysis

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Project ID	CHARLO_WEB-20230213-0040	**Receipt Date**	15-Feb-2023
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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Diuron		<0.01 mg/kg	
Dodemorph (cis- and trans-)		<0.10 mg/kg	
Endosulfan I (alpha-isomer)		<0.10 mg/kg	
Endosulfan II (beta-isomer)		<0.10 mg/kg	
Endosulfan sulfate		<0.10 mg/kg	
Fensulfothion		<0.01 mg/kg	
Fenthion		<0.01 mg/kg	
Fenvalerate/Esfenvalerate (sum of isomers)		<0.10 mg/kg	
Fluopyram		<0.01 mg/kg	
Iprodione		<0.50 mg/kg	
MGK 264 (sum of isomers)		<0.05 mg/kg	
Novaluron		<0.02 mg/kg	
Pirimicarb		<0.01 mg/kg	
Pyraclostrobin		<0.01 mg/kg	
Pyriproxyfen		<0.05 mg/kg	
Resmethrin (sum of isomers)		<0.05 mg/kg	
Spirodiclofen		<0.05 mg/kg	
Tebufenozide		<0.01 mg/kg	
Teflubenzuron		<0.02 mg/kg	
Tetrachlorvinphos		<0.01 mg/kg	
Tetramethrin (sum of isomers)		<1.0 mg/kg	
Thiabendazole		<0.01 mg/kg	
Thiophanate-methyl		<0.01 mg/kg	
Azadirachtin		<0.50 mg/kg	
Benzovindiflupyr		<0.010 mg/kg	
Etridiazole		<0.10 mg/kg	
Kinoprene		<1.25 mg/kg	
Methoprene		<5.0	
Phenothrin		<0.50 mg/kg	
Pyrethrin I		<0.050 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Pyrethrin II		<0.050 mg/kg	
Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside			
Daminozide	0.1 mg/kg	<0.10 mg/kg	Pass
Fenhexamid	10 mg/kg	<0.10 mg/kg	Pass

Method References	**Testing Location**
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA
Internally Developed Method	
Glyphosate and AMPA (GLY_AMPA_S)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA
Internally developed method.	
Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST_HEMP)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA

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 LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Certificate of Analysis

Charlotte's Web, Inc.
700 Tech Court
Louisville Colorado 80027 United States

Method References	Testing Location
Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA

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 LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Testing Location(s)	Released on Behalf of Eurofins by
Food Integrity Innovation-Madison Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	**Edward Ladwig - President Eurofins Food Chemistry Testing Madison** ilac-MRA ACCREDITED 2918.01

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