



<b>Sample Name:</b>	A01248		
<b>Sample Description:</b>	17mg Orange Blossom 30mL		
<b>Lab Name:</b>	Charlotte's Web QC Lab, 700 Tech Ct., Louisville, CO 80027, Room 203	<b>Sample Analyzed By:</b>	Morgan Stock
<b>Customer:</b>	Charlotte's Web	<b>Test Method ID:</b>	MTH-002 R2
<b>Contact:</b>	Richard Wright, qateam@charlottesweb.com	<b>Date Sample Received:</b>	19-May-23
		<b>Date Sample Analyzed:</b>	23-May-23

**Analysis**

**Result (g/mL)**

Manual Density Measurement

0.940

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	Morgan Stock	<i>Morgan Stock</i>	23 May 23
Peer Reviewer	Leewaphath Xaiyasang	<i>Leewaphath Xaiyasang</i>	24 May 23

Prepared for:

**17mg Organic Orange Blossom 30mL**

**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01248 - Composite</b>	Test: <b>Potency</b>	Reported: <b>6/27/23</b>	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000244559	Started: 5/25/23	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 05/23/2023 @ 10:25 AM	Sampler ID: N/A
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**CANNABINOID PROFILE**

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND	Amendment to T000244559 issued on 26May2023 to add Total THC per container.
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.029	0.29	
Cannabidiolic acid (CBDA)	0.020	0.059	ND	ND	Total THC per container (30mL) = 8.7mg.
Cannabidiol (CBD)	0.020	0.058	2.150	21.50	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.062	ND	ND	Total THC per serving (1 mL) = 0.29mg.
Cannabinolic Acid (CBNA)	0.010	0.035	ND	ND	
Cannabinol (CBN)	0.005	0.016	<LOQ	<LOQ	
Cannabigerolic acid (CBGA)	0.015	0.052	ND	ND	
Cannabigerol (CBG)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.025	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	0.021	0.21	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabichromene (CBC)	0.006	0.022	0.096	0.96	
<b>Total Cannabinoids</b>			<b>2.296</b>	<b>22.96</b>	
Total Potential THC**			0.029	0.29	
Total Potential CBD**			2.150	21.50	

*K Winterheimer*  
Karen Winterheimer  
26-Jun-23  
3:19 PM

*Samantha Smith*  
Sam Smith  
27-Jun-23  
9:03 AM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

% = % (w/w) = Percent (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)

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 MED 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



CDPHE Certified



Certificate #4329.02

Prepared for:

**17mg Organic Orange Blossom 30mL**

**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01248 - Composite</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>5/26/23</b>	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000244560	Started: 5/23/23	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 05/23/2023 @ 10:25 AM	Sampler ID: N/A

### MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	2.0x10 <sup>3</sup> - 3.0x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	2.0x10 <sup>2</sup> - 3.0x10 <sup>4</sup> CFU/g	None Detected	
<b>STEC</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	N/A	Absent	
<b>Salmonella</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	N/A	Absent	

  
Brett Hudson  
5/26/2023  
2:45:00 PM

  
Brianne Maillot  
5/26/2023  
4:21:00 PM

PREPARED BY / DATE

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<sup>2</sup> = 100 CFU  
10<sup>3</sup> = 1,000 CFU  
10<sup>4</sup> = 10,000 CFU  
10<sup>5</sup> = 100,000 CFU

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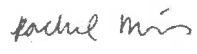

Prepared for:

**17mg Organic Orange Blossom 30mL**
**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01248 - Composite Metals</b>	Test: <b>Metals</b>	Reported: <b>5/26/23</b>	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000244561	Started: 5/25/23	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 05/23/2023 @ 10:25 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Arsenic</b>	0.047 - 4.73	ND	
<b>Cadmium</b>	0.046 - 4.58	ND	
<b>Mercury</b>	0.046 - 4.60	ND	
<b>Lead</b>	0.044 - 4.38	ND	

 Rachel Morris 26-May-23 12:35 PM	 Sam Smith 26-May-23 12:37 PM
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**Definitions**

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

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Certificate #4329.02

Prepared for:


**17mg Organic Orange Blossom 30mL**


**CWB HOLDINGS, INC**

Batch ID or Lot Number: <b>A01248 - Composite</b>	Test: <b>Mycotoxins</b>	Reported: <b>5/31/23</b>	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000244562	Started: 5/30/23	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 05/23/2023 @ 10:25 AM	Sampler ID: N/A

### MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.3 - 138	ND	N/A
Aflatoxin B1	0.9 - 35.2	ND	
Aflatoxin B2	0.8 - 35.3	ND	
Aflatoxin G1	0.9 - 35.3	ND	
Aflatoxin G2	0.9 - 35.8	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

  
Sam Smith  
31-May-23  
1:51 PM

  
Karen Winterheimer  
31-May-23  
1:53 PM

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#### Definitions

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

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Certificate #4329.02

## Certificate of Analysis

### Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027 United States

<b>Sample Name:</b>	A01248 - Composite	<b>Eurofins Sample:</b>	12950669
<b>Project ID</b>	CHARLO_WEB-20230519-0106	<b>Receipt Date</b>	22-May-2023
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Description</b>	17mg Organic Orange Blossom 30mL MFG: May 15 2023 Expiration: May 15 2025	<b>Login Date</b>	19-May-2023
		<b>Date Started</b>	23-May-2023
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	901-2023-E029986

<b>Analysis</b>	<b>Result</b>
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**Glyphosate and AMPA**

Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	Limit	Result	Pass/Fail
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**BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices**

**Category I Residual Solvent or Processing Chemical**

Analysis	Limit	Result	Pass/Fail
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**

Analysis	Limit	Result	Pass/Fail
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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### Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027 United States

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Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.			
<b>Summed Group 1 (Butanes)</b>			
Isobutane (2-Methylpropane)		<500 ppm	
<b>Summed Group 2 (Heptanes)</b>			
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	
<b>Summed Group 3 (Petroleum Ether)</b>			
2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	
<b>Summed Group 4 (Xylenes)</b>			
Xylenes-1 (Ethylbenzene)		<40.0 ppm	
<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminozide</b>			
Daminozide	0.1 mg/kg	<0.10 mg/kg	Pass
Fenhexamid	10 mg/kg	<0.10 mg/kg	Pass
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
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

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Louisville Colorado 80027 United States

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<b>Project ID</b>	CHARLO_WEB-20230519-0106	<b>Receipt Date</b>	22-May-2023
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Analysis	Limit	Result	Pass/Fail
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#### Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations

Analysis	Limit	Result	Pass/Fail
Bifenthrin	0.5 mg/kg	<0.20 mg/kg	Pass
Boscalid	10 mg/kg	<0.01 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.02 mg/kg	Pass
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	<0.01 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



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700 Tech Court  
Louisville Colorado 80027 United States

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Analysis	Limit	Result	Pass/Fail
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#### Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations

Analysis	Limit	Result	Pass/Fail
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
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

The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42.

Azadirachtin	<0.50 mg/kg
Benzovindiflupyr	<0.01 mg/kg
Etridiazole	<0.10 mg/kg
Kinoprene	<1.25 mg/kg

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Louisville Colorado 80027 United States

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
Methoprene		<5.0 mg/kg	
Phenothrin		<0.50 mg/kg	
Pyrethrin I		<0.05 mg/kg	
Pyrethrin II		<0.05 mg/kg	
Cytraniliprole		<0.01 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	
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)		<0.50 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)		<0.25 mg/kg	
Spirodiclofen		<0.05 mg/kg	

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Analysis	Limit	Result	Pass/Fail
<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
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	

Method References	Testing Location
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<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)</b>	<b>Food Integrity Innovation-Madison</b>
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6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally Developed Method

<b>Glyphosate and AMPA (GLY_AMP_A_S)</b>	<b>Food Integrity Innovation-Madison</b>
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6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally developed method.

<b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)</b>	<b>Food Integrity Innovation-Madison</b>
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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
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Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations (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).*

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

Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistry Testing Madison

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