

Eurofins Microbiology Laboratory (Colorado)

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CW Hemp

 Stephanie Fitzgerald  
 700 Tech Ct  
 Louisville, CO 80026

**Client Code:** EI0000061  
**PO#:** QC 325

## ANALYTICAL REPORT

AR-24-EI-008400-01

**Received On:** 11Apr2024  
**Reported On:** 16Apr2024

<b>Eurofins Sample Code:</b>	397-2024-04110024	<b>Sample Registration Date:</b>	11Apr2024
<b>Client Sample Code:</b>	A01312 - Composite	<b>Condition Upon Receipt:</b>	acceptable, 17.9°C
<b>Sample Description:</b>	60mg Organic Mint Chocolate 30mL	<b>Sample Reference:</b>	

**Note:** Testing has been performed in accordance with CDPHE hemp regulations, and is for official compliance purposes. LOD and LOQ are as follows: APC, Coliform, YM counts: LOD = 10CFU/g if plated from 1:10 dilution; 1 CFU/g if plated directly. Salmonella Bacgene: LOD = 0.6 CFU/25g sample, STEC VirX LOD = 1.2 CFU/25g sample. Measurement Uncertainty is as follows: APC 5.58%; Coliform 3.76%; Yeast 5.98%; Mold 10.64%

<b>UMDBM - Total Coliforms - AOAC 991.14</b>	<b>Reference</b> AOAC 991.14	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 12Apr2024
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<b>Parameter</b>	<b>Result</b>
Total Coliforms	< 10 cfu/g

<b>UMDTC - Salmonella species - AOAC-RI 121501</b>	<b>Reference</b> AOAC-RI 121501	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 12Apr2024
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<b>Parameter</b>	<b>Result</b>
Salmonella spp.	Not Detected per 25 g

<b>UMMFL - Aerobic Plate Count - AOAC 966.23</b>	<b>Reference</b> AOAC 966.23	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 13Apr2024
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<b>Parameter</b>	<b>Result</b>
Aerobic Plate Count	< 10 cfu/g

<b>ZMJAF - Yeasts &amp; Moulds - FDA BAM Chapter 18 mod.</b>	<b>Reference</b> FDA BAM Chapter 18 mod.	<b>Accreditation</b> ISO/IEC 17025:2017 A2LA 3329.11	<b>Completed</b> 16Apr2024
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<b>Parameter</b>	<b>Result</b>
Yeasts & Moulds	< 10 cfu/g

<b>ZMJHN - Shiga-toxin Escherichia coli producer - AOAC-RI 121203</b>	<b>Reference</b> AOAC-RI 121203	<b>Completed</b> 12Apr2024
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<b>Parameter</b>	<b>Result</b>
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<b>ZMJHN - Shiga-toxin Escherichia coli producer - AOAC-RI 121203</b>	<b>Reference</b> AOAC-RI 121203	<b>Completed</b> 12Apr2024
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Parameter	Result
Shiga-toxin Escherichia coli producer	Not Detected per 25 g

Respectfully Submitted,



Jake Gilgen  
Laboratory Supervisor 4-565

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.

<b>Sample Name:</b>	A01312		
<b>Sample Description:</b>	60mg mint chocolate 30mL		
<b>Lab Name:</b>	Charlotte's Web QC Lab, 700 Tech Ct., Louisville, CO 80027, Room 203	<b>Sample Analyzed By:</b>	Maxwell Staab
<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>	10-Apr-24
		<b>Date Sample Analyzed:</b>	10-Apr-24

**Analysis**

**Result (g/mL)**

Manual Density Measurement

0.943

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	Maxwell Staab	<i>Maxwell Staab</i>	10 Apr 24
Peer Reviewer	Morgan Stock	<i>Morgan Stock</i>	10 Apr 24

## Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court  
Louisville Colorado 80027 United States

<b>Sample Name:</b>	<b>A01312 - Composite</b>	<b>Eurofins Sample:</b>	<b>13989463</b>
<b>Project ID</b>	CHARLO_WEB-20240410-0100	<b>Receipt Date</b>	11-Apr-2024
<b>PO Number</b>	QC 325	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>	0.5 mL	<b>Login Date</b>	10-Apr-2024
<b>Description</b>	60mg Organic Mint Chocolate 30mL 60 MFG: April 8 2024 Expiration: April 8 2026	<b>Date Started</b>	11-Apr-2024
		<b>Sampled</b>	Sample results apply as received
		<b>Number Compositated</b>	3
		<b>Online Order</b>	901-2024-E025692

Analysis	Result
<b>Industrial Hemp Cannabinoid Profile</b>	
CBDVA	None detected at detection limit of 0.0004 %
CBDV	0.0577 %
CBDA	0.0971 %
CBGA	None detected at detection limit of 0.0004 %
CBG	0.0654 %
CBD	7.29 %
THCV	0.00367 %
CBN	0.0325 %
Delta 9-THC	0.198 %
Delta 8-THC	0.00528 %
THCA	None detected at detection limit of 0.0017 %
CBC	0.380 %
THCVA	None detected at detection limit of 0.0004 %
CBNA	None detected at detection limit of 0.0004 %
CBCA	0.00433 %
CBL	0.0151 %
Total Cannabinoids	8.15 %
Total THC (THC + (THCA x 0.877))	0.198 %
Total CBD (CBD + (CBDA x 0.877))	7.38 %
Compliance	Analysis performed for compliance testing
Total THC	113 mg/container
Total CBD	4210 mg/container
<b>Density by Gravimetric Analysis</b>	
Density	0.950 g/mL
<b>Elements by ICP Mass Spectrometry</b>	

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Analysis	Result
<b>Elements by ICP Mass Spectrometry</b>	
Arsenic	<100 ppb
Cadmium	<50.0 ppb
Mercury	<50.0 ppb
Lead	<50.0 ppb
<b>Mycotoxins in Raw Materials</b>	
Aflatoxin B1	<0.500 ppb
Aflatoxin B2	<0.500 ppb
Aflatoxin G1	<0.500 ppb
Aflatoxin G2	<0.500 ppb
Ochratoxin A	<1.00 ppb
Sum of B1 B2 G1 and G2	<2.00 ppb
<b>Glyphosate and AMPA</b>	
Glyphosate	
AMPA	

Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
<b>Category I Residual Solvent or Processing Chemical</b>			
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.			
<b>Category II Residual Solvent or Processing Chemical</b>			
Isopropal Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass

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Analysis	Limit	Result	Pass/Fail
<b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices</b>			
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
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	

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

**Summed Group 4 (Xylenes)**

Xylenes-1 (Ethylbenzene) <40.0 ppm

**Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminozide**

Daminozide	0.1 mg/kg	<0.10 mg/kg	Pass
Fenhexamid	10 mg/kg	<0.10 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.

**Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations**

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
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

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



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

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<b>Multi-Residue Analysis for hemp products - Compliance with Colorado Regulations</b>			
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	
Cyantraniliprole		<0.01 mg/kg	
Azadirachtin		<0.50 mg/kg	
Benzovindiflupyr		<0.01 mg/kg	
Etridiazole		<0.10 mg/kg	
Kinoprene		<1.25 mg/kg	
Methoprene		<1.0 mg/kg	
Phenothrin		<0.50 mg/kg	
Pyrethrin I		<0.05 mg/kg	
Pyrethrin II		<0.05 mg/kg	

Method References	Testing Location
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BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN\_SOL\_S)

Food Integrity Innovation-Madison

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Method References	Testing Location
<p><b>BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)</b></p> <p>Internally Developed Method</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Density by Gravimetric Analysis (SPGP_S)</b></p> <p>NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b></p> <p>Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Glyphosate and AMPA (GLY_AMP_A_S)</b></p> <p>Internally developed method.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Industrial Hemp Cannabinoid Profile (IHCBD_CO_S)</b></p> <p>Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p><b>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)</b></p> <p><i>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</i></p> <p><i>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.</i></p> <p>List of the tested pesticides and their limits of quantification (LOQs) are available upon request.</p>	<p><b>Food Integrity Innovation-Madison</b> 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>

## 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 - 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).

*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.

**Mycotoxins in Raw Materials (MYCO\_REG\_S)**

**Food Integrity Innovation-Madison**

6304 Ronald Reagan Ave Madison, WI 53704 USA

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, 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).

### Testing Location(s)

### Released on Behalf of Eurofins by

**Food Integrity Innovation-Madison**

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