

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
 Louisville Colorado 80027 United States

Sample Name:	A01414 - Composite	Eurofins Sample:	15192264
Project ID	CHARLO_WEB-20250409-0128	Receipt Date	15-Apr-2025
PO Number	QC 325	Receipt Condition	Ambient temperature
Sample Serving Size	0.5 mL	Login Date	09-Apr-2025
Description	CW 60mg Organic Lemon Twist 30mL 60 MFG: April 8 2025 EXP: April 8 2027	Date Started	15-Apr-2025
		Sampled	Sample results apply as received
		Number Composited	3
		Online Order	901-2025-E031660

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	None detected at detection limit of 0.0004 %
CBDV	0.226 mg/Serving Size
CBDA	0.580 mg/Serving Size
CBGA	None detected at detection limit of 0.0004 %
CBG	0.608 mg/Serving Size
CBD	33.1 mg/Serving Size
THCV	0.0180 mg/Serving Size
CBN	0.212 mg/Serving Size
Delta 9-THC	0.940 mg/Serving Size
Delta 8-THC	0.0294 mg/Serving Size
THCA	None detected at detection limit of 0.0017 %
CBC	1.20 mg/Serving Size
THCVA	None detected at detection limit of 0.0004 %
CBNA	None detected at detection limit of 0.0004 %
CBCA	0.0152 mg/Serving Size
CBL	0.0829 mg/Serving Size
Total Cannabinoids	37.0 mg/Serving Size
Total THC (THC + (THCA x 0.877))	0.940 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	33.6 mg/Serving Size
Total THC (THC + (THCA x 0.877))	56.4 mg/container
Total CBD (CBD + (CBDA x 0.877))	2020 mg/container
Density by Gravimetric Analysis	
Density	0.950 g/mL
Elements by ICP Mass Spectrometry	
Arsenic	<10.0 ppb

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Analysis	Result		
Elements by ICP Mass Spectrometry			
Cadmium	<5.00 ppb		
Lead	6.92 ppb		
Mercury	<5.00 ppb		
Elements by ICP Mass Spectrometry - Colorado Compliance Statement *			
Compliance	Analysis performed to demonstrate compliance with CDPHE regulation.		
Mycotoxins in Raw Materials			
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 Aflatoxins B1, B2, G1, and G2	<2.00 ppb		
Compliance *	Analysis performed to demonstrate compliance with CDPHE regulation.		
Glyphosate and AMPA			
Glyphosate	<11.9 ng/Serve		
AMPA	<23.8 ng/Serve		
Analysis	Limit	Result	Pass/Fail
Residual Solvent Analysis in Cannabis and Hemp Matrices			
Category I Residual Solvent or Processing Chemical			
Benzene		<1.0 ppm	
Chloroform		<1.0 ppm	
1,2-Dichloroethane		<1.0 ppm	
Ethylene Oxide		<25.0 ppm	
Methylene Chloride		<1.0 ppm	
Trichloroethylene		<1.0 ppm	

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Analysis	Limit	Result	Pass/Fail
Residual Solvent Analysis in Cannabis and Hemp Matrices			
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			
Acetone		<180 ppm	
Acetonitrile		<180 ppm	
n-Butane		<500 ppm	
Ethanol		<1000 ppm	
Ethyl Acetate		<1000 ppm	
Ethyl Ether		<1000 ppm	
Heptane		<50.0 ppm	
n-Hexane		<30.0 ppm	
Methanol		<1000 ppm	
n-Pentane		<25.0 ppm	
Propane		<1000 ppm	
Isopropyl Alcohol		<1000 ppm	
Toluene		<85.0 ppm	
Xylenes (ortho-, meta-, para-)		<160 ppm	
The Pass/Fail reporting designations are relative to the limits set forth by the Bureau of Cannabis Control, Title 16, Division 42. *		-	
Compliance *		-	
		Analysis performed to demonstrate compliance with CDPHE regulation.	
Multi-Residue Analysis for hemp products			
Abamectin	<0.25 mg/kg	<0.10 mg/kg	Pass
Acephate	<0.05 mg/kg	<0.01 mg/kg	Pass
Acetamiprid	<0.05 mg/kg	<0.01 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products			
Aldicarb	<0.5 mg/kg	<0.10 mg/kg	Pass
Allethrin	<0.1 mg/kg	<0.10 mg/kg	Pass
Atrazine		<0.01 mg/kg	
Azoxystrobin	<0.01 mg/kg	<0.01 mg/kg	Pass
Bifenazate	<0.01 mg/kg	<0.01 mg/kg	Pass
Bifenthrin		<0.10 mg/kg	
Boscalid	<0.01 mg/kg	<0.01 mg/kg	Pass
Buprofezin		<0.02 mg/kg	
Carbaryl	<0.025 mg/kg	<0.02 mg/kg	Pass
Carbofuran	<0.01 mg/kg	<0.01 mg/kg	Pass
Chlorantraniliprole		<0.02 mg/kg	
Chlorfenapyr	<1.5 mg/kg	<0.50 mg/kg	Pass
Chlorpyrifos	<0.5 mg/kg	<0.05 mg/kg	Pass
Clofentezine	<0.01 mg/kg	<0.01 mg/kg	Pass
Clothianidin	<0.025 mg/kg	<0.02 mg/kg	Pass
Coumaphos	<0.01 mg/kg	<0.01 mg/kg	Pass
Cyfluthrin		<0.50 mg/kg	
Cyhalothrin, lambda-		<0.50 mg/kg	
Cypermethrin		<0.50 mg/kg	
Cyprodinil	<0.01 mg/kg	<0.01 mg/kg	Pass
Deltamethrin		<0.10 mg/kg	
Diazinon		<0.02 mg/kg	
Dichlorvos	<0.05 mg/kg	<0.05 mg/kg	Pass
Dimethoate	<0.01 mg/kg	<0.01 mg/kg	Pass
Dimethomorph (E- and Z-isomers)		<0.10 mg/kg	
Dinotefuran	<0.05 mg/kg	<0.05 mg/kg	Pass
Diuron		<0.01 mg/kg	
Dodemorph (cis- and trans-)		<0.10 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products			
Endosulfan I (alpha-isomer)	<2.5 mg/kg	<0.10 mg/kg	Pass
Endosulfan II (beta-isomer)	<2.5 mg/kg	<0.10 mg/kg	Pass
Endosulfan sulfate	<2.5 mg/kg	<0.10 mg/kg	Pass
Ethoprophos (Ethoprop)	<0.01 mg/kg	<0.01 mg/kg	Pass
Etofenprox		<0.02 mg/kg	
Etoxazole		<0.01 mg/kg	
Fenoxycarb	<0.01 mg/kg	<0.01 mg/kg	Pass
Fenpyroximate		<0.01 mg/kg	
Fensulfothion	<0.01 mg/kg	<0.01 mg/kg	Pass
Fenthion	<0.01 mg/kg	<0.01 mg/kg	Pass
Fenvalerate/Esfenvalerate (sum of isomers)		<0.10 mg/kg	
Fipronil	<0.01 mg/kg	<0.01 mg/kg	Pass
Flonicamid	<0.025 mg/kg	<0.02 mg/kg	Pass
Fludioxonil	<0.01 mg/kg	<0.01 mg/kg	Pass
Fluopyram	<0.01 mg/kg	<0.01 mg/kg	Pass
Hexythiazox		<0.05 mg/kg	
Imazalil	<0.01 mg/kg	<0.01 mg/kg	Pass
Imidacloprid	<0.01 mg/kg	<0.01 mg/kg	Pass
Iprodione	<0.5 mg/kg	<0.50 mg/kg	Pass
Kresoxim-methyl	<0.15 mg/kg	<0.15 mg/kg	Pass
MGK 264 (sum of isomers)		<0.05 mg/kg	
Malathion	<0.01 mg/kg	<0.01 mg/kg	Pass
Metalaxyl	<0.01 mg/kg	<0.01 mg/kg	Pass
Methiocarb	<0.01 mg/kg	<0.01 mg/kg	Pass
Methomyl	<0.025 mg/kg	<0.02 mg/kg	Pass
Mevinphos (E- and Z-isomers)	<0.025 mg/kg	<0.02 mg/kg	Pass
Myclobutanil	<0.01 mg/kg	<0.01 mg/kg	Pass
Naled (Dibrom)		<0.02 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products			
Novaluron	<0.025 mg/kg	<0.02 mg/kg	Pass
Oxamyl	<1.5 mg/kg	<0.05 mg/kg	Pass
Paclobutrazol	<0.01 mg/kg	<0.01 mg/kg	Pass
Parathion-methyl		<0.05 mg/kg	
Permethrin (sum of isomers)		<0.10 mg/kg	
Phosmet		<0.05 mg/kg	
Piperonyl butoxide	<1.25 mg/kg	<0.05 mg/kg	Pass
Pirimicarb	<0.01 mg/kg	<0.01 mg/kg	Pass
Prallethrin		<0.50 mg/kg	
Propiconazole (sum of isomers)		<0.05 mg/kg	
Propoxur	<0.01 mg/kg	<0.01 mg/kg	Pass
Pyraclostrobin	<0.01 mg/kg	<0.01 mg/kg	Pass
Pyridaben	<0.02 mg/kg	<0.02 mg/kg	Pass
Pyriproxyfen		<0.05 mg/kg	
Quintozene		<0.05 mg/kg	
Resmethrin (sum of isomers)	<0.05 mg/kg	<0.05 mg/kg	Pass
Spinetoram (spinosyns J and L)	<0.01 mg/kg	<0.01 mg/kg	Pass
Spinosad (spinosyns A and D)	<0.01 mg/kg	<0.01 mg/kg	Pass
Spirodiclofen		<0.05 mg/kg	
Spiromesifen		<0.02 mg/kg	
Spirotetramat	<0.01 mg/kg	<0.01 mg/kg	Pass
Spiroxamine (2 diastereoisomers)		<0.01 mg/kg	
Tebuconazole	<0.01 mg/kg	<0.01 mg/kg	Pass
Tebufenozide	<0.01 mg/kg	<0.01 mg/kg	Pass
Teflubenzuron	<0.025 mg/kg	<0.02 mg/kg	Pass
Tetrachlorvinphos	<0.01 mg/kg	<0.01 mg/kg	Pass
Tetramethrin (sum of isomers)		<1.0 mg/kg	
Thiabendazole		<0.05 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products			
Thiacloprid	<0.01 mg/kg	<0.01 mg/kg	Pass
Thiamethoxam	<0.01 mg/kg	<0.01 mg/kg	Pass
Thiophanate-methyl		<0.01 mg/kg	
Trifloxystrobin	<0.01 mg/kg	<0.01 mg/kg	Pass
Cyantranilprole	<0.01 mg/kg	<0.01 mg/kg	Pass
The Pass/Fail reporting designations are in Compliance with the Colorado Department of Public Health and Environment Regulation No. 6 CCR 1010-21			
Acequinocyl		<0.50 mg/kg	
Azadirachtin	<0.5 mg/kg	<0.50 mg/kg	Pass
Benzovindiflupyr	<0.01 mg/kg	<0.01 mg/kg	Pass
Etridiazole	<0.15 mg/kg	<0.10 mg/kg	Pass
Kinoprene	<1.25 mg/kg	<1.25 mg/kg	Pass
Methoprene		<1.0 mg/kg	
Phenothrin		<0.50 mg/kg	
Pyrethrin I		<0.05 mg/kg	
Pyrethrin II		<0.05 mg/kg	
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.			

Method References	Testing Location
Density by Gravimetric Analysis (SPGP_S)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA

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Method References	Testing Location
<p>Density by Gravimetric Analysis (SPGP_S)</p> <p>NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)</p>	<p>Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Elements by ICP Mass Spectrometry - Colorado Compliance Statement (ICPMS_CO_S)</p> <p>Compliance statement only.</p>	<p>Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Elements by ICP Mass Spectrometry (ICP_MS_S)</p> <p>Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).</p>	<p>Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Glyphosate and AMPA (GLY_AMPA_S)</p> <p>Internally developed method.</p>	<p>Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Industrial Hemp Cannabinoid Profile (IHCBD_S)</p> <p>Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).</p>	<p>Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>
<p>Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)</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>Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA</p>


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Method References	Testing Location
Multi-Residue Analysis for hemp products (PEST_HEMP) <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> <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> List of the tested pesticides and their limits of quantification (LOQs) are available upon request.	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Mycotoxins in Raw Materials (MYCO_REG_S) 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).	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S) Internally Developed Method	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA

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  2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.

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Eurofins Microbiology Laboratory (Colorado)

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 CW Hemp

 Rupa Das
 700 Tech Ct
 Louisville, CO 80027

Client Code: EI0000061
PO#: QC 325

ANALYTICAL REPORT

AR-25-EI-008037-01

Received On: 11Apr2025
Reported On: 17Apr2025
Order Code: 006-10547-1902033

Eurofins Sample Code:	397-2025-04110052	Sample Registration Date:	11Apr2025
Client Sample Code:	A01414 - Composite	Condition Upon Receipt:	acceptable, 24.1°C
Sample Description:	CW 60mg Organic Lemon Twist 30mL	Sample Reference:	

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%

Weight 245.51
Product type Oil

UMDBM - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 12Apr2025
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Parameter	Result
Total Coliforms	< 10 cfu/g

UMDTC - Salmonella species - AOAC-RI 121501	Reference AOAC-RI 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 12Apr2025
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Parameter	Result
Salmonella spp.	Not Detected per 25 g

UMMFL - Aerobic Plate Count - AOAC 966.23	Reference AOAC 966.23	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 13Apr2025
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Parameter	Result
Aerobic Plate Count	< 10 cfu/g

ZMJAF - Yeasts & Moulds - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 16Apr2025
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Parameter	Result
Yeasts & Moulds	< 10 cfu/g

ZMJHN - Shiga-toxin Escherichia coli producer - AOAC-RI 121203	Reference AOAC-RI 121203	Completed 12Apr2025
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