

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027 United States

Sample Name:	A01343 - Composite	Eurofins Sample:	14381118
Project ID	CHARLO_WEB-20240806-0258	Receipt Date	08-Aug-2024
PO Number	QC 325	Receipt Condition	Ambient temperature
Sample Serving Size	0.5 mL	Login Date	06-Aug-2024
Description	60mg Organic Mint Chocolate 100mL 200	Date Started	08-Aug-2024
		Sampled	Sample results apply as received
		Number Compositied	3
		Online Order	901-2024-E057639

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	None detected at detection limit of 0.0004 %
CBDV	0.414 mg/Serving Size
CBDA	0.310 mg/Serving Size
CBGA	None detected at detection limit of 0.0004 %
CBG	0.436 mg/Serving Size
CBD	36.0 mg/Serving Size
THCV	0.0232 mg/Serving Size
CBN	0.145 mg/Serving Size
Delta 9-THC	1.05 mg/Serving Size
Delta 8-THC	<0.0237 mg/Serving Size
THCA	None detected at detection limit of 0.0017 %
CBC	1.47 mg/Serving Size
THCVA	None detected at detection limit of 0.0004 %
CBNA	None detected at detection limit of 0.0004 %
CBCA	<0.0119 mg/Serving Size
CBL	0.0542 mg/Serving Size
Total Cannabinoids	39.9 mg/Serving Size
Total THC (THC + (THCA x 0.877))	1.05 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	36.3 mg/Serving Size
Total THC (THC + (THCA x 0.877))	210 mg/container
Total CBD (CBD + (CBDA x 0.877))	7270 mg/container
Density by Gravimetric Analysis	
Density	0.949 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
Mercury	<5.00 ppb
Lead	<5.00 ppb
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
Glyphosate and AMPA	
Glyphosate	<11.9 ng/Serve
AMPA	<23.7 ng/Serve

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			
Isopropyl Alcohol	5000 ppm	<500 ppm	Pass
Acetone	5000 ppm	<200 ppm	Pass

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

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Analysis	Limit	Result	Pass/Fail
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices			
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	<0.30 mg/kg	Pass
Acephate	5 mg/kg	<0.10 mg/kg	Pass
Acequinocyl	4 mg/kg	<1.0 mg/kg	Pass
Acetamiprid	5 mg/kg	<0.10 mg/kg	Pass
Aldicarb	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfone (Aldoxycarb)	0.1 mg/kg	<0.10 mg/kg	Pass
Aldicarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Azoxystrobin	40 mg/kg	<0.10 mg/kg	Pass
Bifenazate	5 mg/kg	<0.10 mg/kg	Pass
Bifenthrin	0.5 mg/kg	<0.10 mg/kg	Pass
Boscalid	10 mg/kg	<0.10 mg/kg	Pass
Captan	5 mg/kg	<0.20 mg/kg	Pass
Carbaryl	0.5 mg/kg	<0.10 mg/kg	Pass
Carbofuran	0.1 mg/kg	<0.10 mg/kg	Pass
Carbofuran-3-hydroxy-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorantraniliprole	40 mg/kg	<0.10 mg/kg	Pass
Chlordane, cis-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlordane, trans-	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorfenapyr	0.1 mg/kg	<0.10 mg/kg	Pass
Chlorpyrifos	0.1 mg/kg	<0.10 mg/kg	Pass
Clofentezine	0.5 mg/kg	<0.10 mg/kg	Pass
Coumaphos	0.1 mg/kg	<0.10 mg/kg	Pass
Cyfluthrin	1 mg/kg	<0.10 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Cypermethrin	1 mg/kg	<0.10 mg/kg	Pass
Diazinon	0.2 mg/kg	<0.10 mg/kg	Pass
Dichlorvos	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethoate	0.1 mg/kg	<0.10 mg/kg	Pass
Dimethomorph	20 mg/kg	<0.10 mg/kg	Pass
Ethoprophos	0.1 mg/kg	<0.10 mg/kg	Pass
Etofenprox	0.1 mg/kg	<0.10 mg/kg	Pass
Etoxazole	1.5 mg/kg	<0.10 mg/kg	Pass
Fenoxycarb	0.1 mg/kg	<0.10 mg/kg	Pass
Fenpyroximate	2 mg/kg	<0.10 mg/kg	Pass
Fipronil	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil desulfinyl	0.1 mg/kg	<0.10 mg/kg	Pass
Fipronil sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Flonicamid	2 mg/kg	<0.10 mg/kg	Pass
Fludioxonil	30 mg/kg	<0.10 mg/kg	Pass
Hexythiazox	2 mg/kg	<0.10 mg/kg	Pass
Imazalil	0.1 mg/kg	<0.10 mg/kg	Pass
Imidacloprid	3 mg/kg	<0.10 mg/kg	Pass
Kresoxim-methyl	1 mg/kg	<0.10 mg/kg	Pass
Malathion	5 mg/kg	<0.10 mg/kg	Pass
Metalaxyl	15 mg/kg	<0.10 mg/kg	Pass
Methiocarb	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfone	0.1 mg/kg	<0.10 mg/kg	Pass
Methiocarb sulfoxide	0.1 mg/kg	<0.10 mg/kg	Pass
Methomyl	0.1 mg/kg	<0.10 mg/kg	Pass
Mevinphos	0.1 mg/kg	<0.10 mg/kg	Pass
Myclobutanil	9 mg/kg	<0.10 mg/kg	Pass
Naled	0.5 mg/kg	<0.10 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
Oxamyl	0.2 mg/kg	<0.10 mg/kg	Pass
Paclobutrazol	0.1 mg/kg	<0.10 mg/kg	Pass
Methyl parathion	0.1 mg/kg	<0.10 mg/kg	Pass
Pentachloroaniline	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorobenzonitrile	0.2 mg/kg	<0.10 mg/kg	Pass
Pentachlorothioanisole	0.2 mg/kg	<0.10 mg/kg	Pass
Permethrin	20 mg/kg	<0.10 mg/kg	Pass
Phosmet	0.2 mg/kg	<0.10 mg/kg	Pass
Piperonylbutoxide	8 mg/kg	<0.10 mg/kg	Pass
Prallethrin	0.4 mg/kg	<0.10 mg/kg	Pass
Propiconazole (sum of isomers)	20 mg/kg	<0.10 mg/kg	Pass
Propoxur	0.1 mg/kg	<0.10 mg/kg	Pass
Pyrethrins	1 mg/kg	<1.0 mg/kg	Pass
Pyridaben	3 mg/kg	<0.10 mg/kg	Pass
Pentachloronitrobenzene	0.2 mg/kg	<0.10 mg/kg	Pass
Spinetoram	3 mg/kg	<0.10 mg/kg	Pass
Spinosad	3 mg/kg	<0.10 mg/kg	Pass
Spiromesifen	12 mg/kg	<0.10 mg/kg	Pass
Spirotetramat	13 mg/kg	<0.10 mg/kg	Pass
Spiroxamine	0.1 mg/kg	<0.10 mg/kg	Pass
Tebuconazole	2 mg/kg	<0.10 mg/kg	Pass
Thiacloprid	0.1 mg/kg	<0.10 mg/kg	Pass
Thiamethoxam	4.5 mg/kg	<0.10 mg/kg	Pass
Trifloxystrobin	30 mg/kg	<0.10 mg/kg	Pass

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Analysis	Limit	Result	Pass/Fail
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
BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)	Food Integrity Innovation-Madison
Internally Developed Method	6304 Ronald Reagan Ave Madison, WI 53704 USA
Density by Gravimetric Analysis (SPGP_S)	Food Integrity Innovation-Madison
NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)	6304 Ronald Reagan Ave Madison, WI 53704 USA
Elements by ICP Mass Spectrometry (ICP_MS_S)	Food Integrity Innovation-Madison
Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).	6304 Ronald Reagan Ave Madison, WI 53704 USA
Glyphosate and AMPA (GLY_AMPA_S)	Food Integrity Innovation-Madison
Internally developed method.	6304 Ronald Reagan Ave Madison, WI 53704 USA
Industrial Hemp Cannabinoid Profile (IHCBD_S)	Food Integrity Innovation-Madison
Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).	6304 Ronald Reagan Ave Madison, WI 53704 USA

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Method References	Testing Location
Multi-Residue Analysis for hemp products - BCC Pesticide List (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
Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (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

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

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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.

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-24-EI-018029-01

Received On: 07Aug2024
Reported On: 12Aug2024

Eurofins Sample Code:	397-2024-08070044	Sample Registration Date:	07Aug2024
Client Sample Code:	A01343 - Composite	Condition Upon Receipt:	acceptable, 20°C
Sample Description:	60mg Organic Mint Chocolate 100mL	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 637.1g
Product type Oil

UMDBM - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 08Aug2024
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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 08Aug2024
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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 09Aug2024
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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 12Aug2024
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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 08Aug2024
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CW Hemp
Rupa Das
700 Tech Ct
Louisville, CO 80027

ANALYTICAL REPORT

AR-24-EI-018029-01

Client Code: EI0000061
PO#: QC 325

Received On: 07Aug2024
Reported On: 12Aug2024

Eurofins Sample Code:	397-2024-08070044	Sample Registration Date:	07Aug2024
Client Sample Code:	A01343 - Composite	Condition Upon Receipt:	acceptable, 20°C
Sample Description:	60mg Organic Mint Chocolate 100mL	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
Product type

ZMJHN - Shiga-toxin Escherichia coli producer - AOAC-RI 121203	Reference AOAC-RI 121203	Completed 08Aug2024
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Parameter	Result
Shiga-toxin Escherichia coli producer	Not Detected per 25 g

Respectfully Submitted,



Jake Gilgen
Laboratory Manager 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 | ✓ 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.