





Certificate of Analysis

Lot or Batch Number:	A01129
Reference Test Method:	MTH-002 R1
Date Analysis Completed:	6-Dec-2021
Description of sample:	60mg Mint Chocolate Oil
Analyst:	Leewaphath Xaiyasang

Analysis **Manual Density Measurement**

Density:

<u>Analysis</u>	<u>Density Result (g/mL)</u>
Manual Density Measurement	0.957

Analyst: Leewaphath Xaiyasang	
Analyst signature: <u></u>	Date: <u>06 Dec 21</u>
Approved By: JESSICA DEPHILLIPS	
Approver Signature: <u></u>	Date: <u>06 DEC 21</u>

Prepared for:


60mg Organic Mint Chocolate 30mL


CWB HOLDINGS, INC

Batch ID or Lot Number: A01129B	Test: Potency	Reported: 12/8/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000180135	Started: 12/7/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.016	0.046	ND	ND	Total THC per serving (0.5 mL) is 0.127 mg. Total THC per container (30 mL) is 7.59 mg.
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.018	0.052	0.253	2.53	
Cannabidiolic acid (CBDA)	0.016	0.053	0.082	0.82	
Cannabidiol (CBD)	0.016	0.052	6.990	69.90	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.057	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.033	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.033	0.33	
Cannabigerolic acid (CBGA)	0.017	0.048	ND	ND	
Cannabigerol (CBG)	0.004	0.011	0.087	0.87	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.022	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	0.062	0.62	
Cannabichromenic Acid (CBCA)	0.006	0.018	ND	ND	
Cannabichromene (CBC)	0.007	0.020	0.346	3.46	
Total Cannabinoids			7.853	78.53	
Total Potential THC**			0.253	2.53	
Total Potential CBD**			7.062	70.62	

 Daniel Weidensaul
08-Dec-2021
04:44 PM

 Ryan Weems
8-Dec-21
4:46 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** 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 Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02


Prepared for:


60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC

Batch ID or Lot Number: A01129M	Test: Potency	Reported: 12/8/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000180139	Started: 12/7/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.016	0.046	ND	ND	Total THC per serving (0.5 mL) is 0.126 mg. Total THC per container (30 mL) is 7.56 mg.
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.018	0.052	0.252	2.52	
Cannabidiolic acid (CBDA)	0.017	0.054	0.080	0.80	
Cannabidiol (CBD)	0.016	0.052	6.947	69.47	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.058	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.033	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.033	0.33	
Cannabigerolic acid (CBGA)	0.017	0.048	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.087	0.87	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.022	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	0.062	0.62	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.007	0.020	0.344	3.44	
Total Cannabinoids			7.805	78.05	
Total Potential THC**			0.252	2.52	
Total Potential CBD**			7.017	70.17	


 Daniel Weidensaul
 08-Dec-2021
 04:44 PM


 Ryan Weems
 8-Dec-21
 4:46 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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

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CDPHE Certified



Certificate #4329.02

Prepared for:


60mg Organic Mint Chocolate 30mL


CWB HOLDINGS, INC

Batch ID or Lot Number: A01129E	Test: Potency	Reported: 12/8/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000180145	Started: 12/7/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.015	0.044	ND	ND	Total THC per serving (0.5 mL) is 0.126 mg. Total THC per container (30 mL) is 7.53 mg.
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.017	0.050	0.251	2.51	
Cannabidiolic acid (CBDA)	0.016	0.051	0.080	0.80	
Cannabidiol (CBD)	0.015	0.050	6.927	69.27	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.019	0.055	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.032	ND	ND	
Cannabinol (CBN)	0.005	0.014	0.033	0.33	
Cannabigerolic acid (CBGA)	0.016	0.046	ND	ND	
Cannabigerol (CBG)	0.004	0.011	0.086	0.86	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.039	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.021	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	0.061	0.61	
Cannabichromenic Acid (CBCA)	0.006	0.018	ND	ND	
Cannabichromene (CBC)	0.007	0.020	0.344	3.44	
Total Cannabinoids			7.782	77.82	
Total Potential THC**			0.251	2.51	
Total Potential CBD**			6.997	69.97	


Daniel Weidensaul
08-Dec-2021
04:44 PM


Ryan Weems
8-Dec-21
4:46 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** 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 Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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Certificate #4329.02

Prepared for:


60mg Organic Mint Chocolate 30mL

CWB HOLDINGS, INC


Batch ID or Lot Number: A01129M	Test: Mycotoxins	Reported: 12/9/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000180143	Started: 12/8/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.9 - 133.3	ND	N/A
Aflatoxin B1	1.1 - 34.5	ND	
Aflatoxin B2	1.1 - 34.2	ND	
Aflatoxin G1	1 - 33.9	ND	
Aflatoxin G2	1.1 - 33.3	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Sam Smith
 9-Dec-21
 12:46 PM

PREPARED BY / DATE


 Ryan Weems
 9-Dec-21
 12:47 PM

APPROVED BY / DATE

Definitions

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

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #4329.02

Prepared for:

60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC

Batch ID or Lot Number: A01129B	Test: Microbial Contaminants	Reported: 12/9/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000180136	Started: 12/6/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

Brianne Maillot
 Brianne Maillot
 12/9/2021
 1:43:00 PM

Carly Bader
 Carly Bader
 12/9/2021
 2:22:00 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:
 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02


Prepared for:

60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC

Batch ID or Lot Number: A01129M	Test: Microbial Contaminants	Reported: 12/9/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000180140	Started: 12/6/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Brianne Maillot
 12/9/2021
 1:43:00 PM

PREPARED BY / DATE


 Carly Bader
 12/9/2021
 2:22:00 PM

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: 10² = 100 CFU
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 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

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Certificate #4329.02


Prepared for:

60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC


Batch ID or Lot Number: A01129E	Test: Microbial Contaminants	Reported: 12/9/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000180146	Started: 12/6/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Brianne Maillot
 12/9/2021
 1:43:00 PM

PREPARED BY / DATE


 Carly Bader
 12/9/2021
 2:22:00 PM

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: 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

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Certificate #4329.02

60mg Organic Mint Chocolate 30mL

Batch ID:	A01129B	Test ID:	T000180137
Matrix:	Finished Product	Received:	12/03/2021 @ 01:36 PM
Test:	Microbial Contaminants	Started:	12/7/2021
Method(s):	TM-28	Reported:	12/10/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<i>E. coli</i>	TM-28: Culture Plating	10 ² CFU/g	N/A	Absent

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

LOD = Limit of Detection | CFU = Colony Forming Units | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

FINAL APPROVAL



Brianne Maillot
10-Dec-2021
12:56 PM

PREPARED BY / DATE



Carly Bader
10-Dec-2021
1:08 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

60mg Organic Mint Chocolate 30mL

Batch ID:	A01129M	Test ID:	T000180141
Matrix:	Finished Product	Received:	12/03/2021 @ 01:36 PM
Test:	Microbial Contaminants	Started:	12/7/2021
Method(s):	TM-28	Reported:	12/10/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<i>E. coli</i>	TM-28: Culture Plating	10 ² CFU/g	N/A	Absent

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

LOD = Limit of Detection | CFU = Colony Forming Units | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

FINAL APPROVAL



Brianne Maillot
10-Dec-2021
12:56 PM

PREPARED BY / DATE



Carly Bader
10-Dec-2021
1:08 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

60mg Organic Mint Chocolate 30mL

Batch ID:	A01129E	Test ID:	T000180147
Matrix:	Finished Product	Received:	12/03/2021 @ 01:36 PM
Test:	Microbial Contaminants	Started:	12/7/2021
Method(s):	TM-28	Reported:	12/10/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	Quantitation Range	Result
<i>E. coli</i>	TM-28: Culture Plating	10 ² CFU/g	N/A	Absent

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

LOD = Limit of Detection | CFU = Colony Forming Units | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

FINAL APPROVAL



Brianne Maillot
10-Dec-2021
12:56 PM

PREPARED BY / DATE



Carly Bader
10-Dec-2021
1:08 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03

Prepared for:


60mg Organic Mint Chocolate 30mL

CWB HOLDINGS, INC


Batch ID or Lot Number: A01129M	Test: Metals	Reported: 12/9/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Unit Co	Test ID: T000180142	Started: 12/8/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 12/03/2021 @ 01:36 PM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.042 - 4.24	ND	
Cadmium	0.045 - 4.45	ND	
Mercury	0.045 - 4.50	ND	
Lead	0.044 - 4.35	ND	

 Ryan Weems
9-Dec-21
1:46 PM

PREPARED BY / DATE

 Sam Smith
9-Dec-21
1:52 PM

APPROVED BY / DATE

Definitions

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

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



CDPHE Certified



Certificate #4329.02

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	A01129M	Eurofins Sample:	11210514
Project ID	CHARLO_WEB-20211202-0452	Receipt Date	03-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	60mg Organic Mint Chocolate 30mL	Login Date	02-Dec-2021
		Date Started	03-Dec-2021
		Sampled	Sample results apply as received
		Number Composited	2
		Online Order	16040-166BBD0B

Analysis	Result
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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

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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	A01129M	Eurofins Sample:	11210514
Project ID	CHARLO_WEB-20211202-0452	Receipt Date	03-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	60mg Organic Mint Chocolate 30mL	Login Date	02-Dec-2021
		Date Started	03-Dec-2021
		Sampled	Sample results apply as received
		Number Composited	2
		Online Order	16040-166BBD0B

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.		-	
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
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
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

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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
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

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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
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 - BCC Pesticide List - Retest			
Captan	5 mg/kg	<5.0 mg/kg	Pass
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

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside			
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 (1-5 Compounds from 500+ Compound list)			
Metolachlor		<0.10 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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6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally Developed Method

Glyphosate and AMPA (GLY_AMPAS)	Food Integrity Innovation-Madison
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6304 Ronald Reagan Ave Madison, WI 53704 USA

Monsanto Company Method ME-1466-02, "High Throughput Assay for Glyphosate and AMPA in Raw Agricultural Commodities and Processed Fractions Using LC/MS/MS".

Multi-Residue Analysis for hemp products - BCC Pesticide List - Retest (PEST_HEMP)	Food Integrity Innovation-Madison
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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.

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Method References

Testing Location

Multi-Residue Analysis for hemp products - BCC Pesticide List (PEST_HEMP)

Food Integrity Innovation-Madison

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Multi-Residue Analysis for hemp products - BCC Pesticides Fenhexamid and Daminoside (PEST_HEMP)

Food Integrity Innovation-Madison

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

Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound list) (PEST_HEMP)

Food Integrity Innovation-Madison

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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**



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