



Certificate of Analysis

Lot or Batch Number:	A01118
Reference Test Method:	MTH-002 R1
Date Analysis Completed:	3-Nov-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>
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Manual Density Measurement	0.956
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Analyst: Leewaphath Xaiyasang

Analyst signature: *Leewaphath Xaiyasang* **Date:** 03 Nov 21

Approved By: Morgan Stock

Approver Signature: *Morgan Stock* **Date:** 03 Nov 21

These results apply only to items tested.

This certificate of analysis shall not be reproduced, except in full, without the prior written consent of CWB Holdings LLC.

Prepared for:

CWB HOLDINGS, INC

60mg Organic Mint Chocolate 30mL

Batch ID or Lot Number: A01118B	Test: Potency	Reported: 11/4/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000173434	Started: 10/29/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.014	0.048	ND	ND	Total THC is 1.37mg per serving (0.5mL). Total THC is 82.2mg per container (30mL).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.016	0.054	0.274	2.74	
Cannabidiolic acid (CBDA)	0.018	0.059	0.05*	0.5*	
Cannabidiol (CBD)	0.018	0.058	7.618	76.18	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.060	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.034	ND	ND	
Cannabinol (CBN)	0.005	0.016	0.022	0.22	
Cannabigerolic acid (CBGA)	0.015	0.050	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.095	0.95	
Tetrahydrocannabivarin (THCVA)	0.013	0.042	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.025	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	0.063	0.63	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.006	0.021	0.302	3.02	
Total Cannabinoids			8.424	84.24	
Total Potential THC**			0.274	2.74	
Total Potential CBD**			7.662	76.62	

K Winternheimer
 Karen Winternheimer
 04-Nov-2021
 01:21 PM

Ryan Weems
 Ryan Weems
 4-Nov-21
 1:51 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.





Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

Prepared for:

CWB HOLDINGS, INC

60mg Organic Mint Chocolate 30mL

Batch ID or Lot Number: A01118M	Test: Potency	Reported: 11/4/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000173437	Started: 10/29/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.014	0.047	ND	ND	Total THC is 1.37mg per serving (0.5mL). Total THC is 82.2mg per container (30mL).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.016	0.053	0.274	2.74	
Cannabidiolic acid (CBDA)	0.018	0.058	0.049*	0.49*	
Cannabidiol (CBD)	0.017	0.057	7.603	76.03	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.059	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.034	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.022	0.22	
Cannabigerolic acid (CBGA)	0.015	0.049	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.095	0.95	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.042	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.064	0.64	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.006	0.021	0.302	3.02	
Total Cannabinoids			8.409	84.09	
Total Potential THC**			0.274	2.74	
Total Potential CBD**			7.646	76.46	

K Winterheimer
Karen Winterheimer
04-Nov-2021
01:21 PM

Ryan Weems
Ryan Weems
4-Nov-21
1:51 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.



Certificate #4329.02

Prepared for:

CWB HOLDINGS, INC
60mg Organic Mint Chocolate 30mL

Batch ID or Lot Number: A01118E	Test: Potency	Reported: 11/4/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000173442	Started: 10/29/21	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.014	0.047	ND	ND	Total THC is 1.39mg per serving (0.5mL). Total THC is 83.4mg per container (30mL).
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.016	0.053	0.278	2.78	
Cannabidiolic acid (CBDA)	0.018	0.058	0.049*	0.49*	
Cannabidiol (CBD)	0.017	0.057	7.695	76.95	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.059	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.034	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.022	0.22	
Cannabigerolic acid (CBGA)	0.015	0.049	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.096	0.96	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.042	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.064	0.64	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.006	0.021	0.306	3.06	
Total Cannabinoids			8.510	85.10	
Total Potential THC**			0.278	2.78	
Total Potential CBD**			7.738	77.38	



 Karen Winternheimer
 04-Nov-2021
 01:21 PM



 Ryan Weems
 4-Nov-21
 1:51 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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Certificate #4329.02

Prepared for:

CWB HOLDINGS, INC
60mg Organic Mint Chocolate 30mL

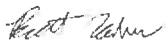
Batch ID or Lot Number: A01118B	Test: Microbial Contaminants	Reported: 11/7/21	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Finished Product	Test ID: T000173435	Started: 11/1/21	USDA License: N/A
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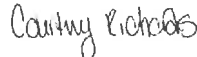
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating); Microbial (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A
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MICROBIAL CONTAMINANTS DETERMINATION

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	



 Brett Hudson
 11/7/2021
 9:04:00 AM



 Courtney Richards
 11/7/2021
 10:44:00 AM

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:

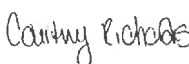
60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC

Batch ID or Lot Number: A01118M	Test: Microbial Contaminants	Reported: 11/7/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000173438	Started: 11/1/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/29/2021 @ 05:02 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	


 Brett Hudson
 11/7/2021
 9:04:00 AM


 Courtney Richards
 11/7/2021
 10:44:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

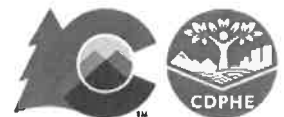
LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 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

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CDPHE Certified



Certificate #4329.02



Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

Prepared for:

60mg Organic Mint Chocolate 30mL

CWB HOLDINGS, INC

Batch ID or Lot Number: A01118E	Test: Microbial Contaminants	Reported: 11/7/21	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Finished Product	Test ID: T000173443	Started: 11/1/21	USDA License: N/A
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Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating); Microbial (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A
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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	

Brett Hudson
Brett Hudson
11/7/2021
9:04:00 AM

Courtney Richards
Courtney Richards
11/7/2021
10:44:00 AM

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

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Prepared for:

60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC


Batch ID or Lot Number: A01118B	Test: Microbial Contaminants	Reported: 11/4/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000173436	Started: 11/1/21	USDA License: N/A
Status: N/A	Method: TM28 (Culture Plating): Microbial-Ecoli	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LOQ	Result	Notes
E. coli	TM-28, Culture Plating	1 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter



 Jackson Osaghae-Nosa
11/4/2021
9:24:00 AM



 Carly Bader
11/4/2021
1:02:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

CFU/g = Colony Forming Units per Gram

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

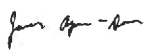
Prepared for:

60mg Organic Mint Chocolate 30mL
CWB HOLDINGS, INC

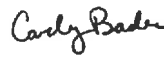
Batch ID or Lot Number: A01118M	Test: Microbial Contaminants	Reported: 11/4/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000173439	Started: 11/1/21	USDA License: N/A
Status: N/A	Method: TM28 (Culture Plating): Microbial-Ecoli	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LOQ	Result	Notes
E. coli	TM-28, Culture Plating	1 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter



 Jackson Osaghae-Nosa
11/4/2021
9:24:00 AM



 Carly Bader
11/4/2021
1:02:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

CFU/g = Colony Forming Units per Gram

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



CERTIFICATE OF ANALYSIS

Prepared for:

60mg Organic Mint Chocolate 30mL

CWB HOLDINGS, INC

Batch ID or Lot Number: A01118E	Test: Microbial Contaminants	Reported: 11/4/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Finished Product	Test ID: T000173444	Started: 11/1/21	USDA License: N/A
Status: N/A	Method: TM28 (Culture Plating): Microbial-Ecoli	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LOQ	Result	Notes
E. coli	TM-28, Culture Plating	1 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa
11/4/2021
9:24:00 AM

Carly Bader
11/4/2021
1:02:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

CFU/g = Colony Forming Units per Gram

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:

CWB HOLDINGS, INC
60mg Organic Mint Chocolate 30mL

Batch ID or Lot Number: A01118M	Test: Metals	Reported: 11/5/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Unit Co	Test ID: T000173440	Started: 11/4/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.044 - 4.35	ND	
Cadmium	0.044 - 4.36	ND	
Mercury	0.043 - 4.33	ND	
Lead	0.043 - 4.31	ND	



 Daniel Weidensaul
 5-Nov-21
 10:08 AM



 Ryan Weems
 5-Nov-21
 10:10 AM

PREPARED BY / DATE

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

Prepared for:

CWB HOLDINGS, INC
60mg Organic Mint Chocolate 30mL

Batch ID or Lot Number: A01118M	Test: Mycotoxins	Reported: 11/3/21	Location: 700 Tech Ct. Louisville, CO 80027
Matrix: Concentrate	Test ID: T000173441	Started: 11/2/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS); Mycotoxins (Colorado Panel)	Received: 10/29/2021 @ 05:02 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.2 - 119.7	ND	N/A
Aflatoxin B1	1 - 30.7	ND	
Aflatoxin B2	0.9 - 31.5	ND	
Aflatoxin G1	1.2 - 31.2	ND	
Aflatoxin G2	1.1 - 29.1	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



 Ryan Weems
 3-Nov-21
 1:10 PM

PREPARED BY / DATE



 Sam Smith
 3-Nov-21
 1:13 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:	A01118M	Eurofins Sample:	11101699
Project ID	CHARLO_WEB-20211029-0365	Receipt Date	30-Oct-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	29-Oct-2021
Description	60mg Organic Mint Chocolate 30mL	Date Started	02-Nov-2021
		Sampled	Sample results apply as received
		Online Order	16040-163EC43D

Analysis	Result
----------	--------

Glyphosate and AMPA

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

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

Analysis	Limit	Result	Pass/Fail
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
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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	A01118M	Eurofins Sample:	11101699
Project ID	CHARLO_WEB-20211029-0365	Receipt Date	30-Oct-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	29-Oct-2021
Description	60mg Organic Mint Chocolate 30mL	Date Started	02-Nov-2021
		Sampled	Sample results apply as received
		Online Order	16040-163EC43D

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
Pentachlorobenzene	0.2 mg/kg	<0.10 mg/kg	Pass

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	A01118M	Eurofins Sample:	11101699
Project ID	CHARLO_WEB-20211029-0365	Receipt Date	30-Oct-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	29-Oct-2021
Description	60mg Organic Mint Chocolate 30mL	Date Started	02-Nov-2021
		Sampled	Sample results apply as received
		Online Order	16040-163EC43D

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - BCC Pesticide List			
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 Pesticides Fenhexamid and Daminoside

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 (1-5 Compounds from 500+ Compound list)

Metolachlor		<0.10 mg/kg	
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Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Method References

Testing Location

Glyphosate and AMPA (GLY_AMPA_S)

Food Integrity Innovation-Madison
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 (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.

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

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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

**Edward Ladwig - President Eurofins Food
Chemistry Testing Madison**

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375



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.



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41

Customer: Charlotte's Web
Product identity: A01118M
Project Number: 29Oct21 Residual Solvents
Client/Metric ID: 60mg Organic Mint Chocolate 30mL
Laboratory ID: 21-012829-0002

Summary

Residual Solvents:

All analytes passing and less than LOQ.



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Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
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Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41



Customer: Charlotte's Web
Product identity: A01118M
Project Number: 29Oct21 Residual Solvents
Client/Metric ID: 60mg Organic Mint Chocolate 30mL
Sample Date:
Laboratory ID: 21-012829-0002
Evidence of Cooling: No
Temp: 18.1 °C
Relinquished by: UPS

Sample Results

Solvents		Method Residual Solvents by GC/MS				Units µg/g	Batch 2110022	Analyze 11/05/21 04:29 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,2-Dichloroethane	< LOQ		1.00			2-Propanol (IPA)	< LOQ		200		
Acetone	< LOQ		200			Acetonitrile	< LOQ		100		
Benzene	< LOQ		1.00			Chloroform	< LOQ		1.00		
Ethanol	< LOQ		200			Ethyl acetate	< LOQ		200		
Ethyl ether	< LOQ		200			Ethylene oxide	< LOQ		1.00		
m,p-Xylene	< LOQ		200			Methanol	< LOQ		200		
Methylene chloride	< LOQ		1.00			n-Butane	< LOQ		200		
n-Heptane	< LOQ		200			n-Hexane	< LOQ		30.0		
n-Pentane	< LOQ		200			o-Xylene	< LOQ		200		
Propane	< LOQ		200			Toluene	< LOQ		100		
Total Xylenes	< LOQ		400			Trichloroethylene	< LOQ		1.00		



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Received: 11/01/21 09:41

These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

$\mu\text{g/g}$ = Microgram per gram

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
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Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41



**Hemp / Cannabis Usable / Extract
Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: OR100028

Company: <u>Charlotte's Web</u> Contact: <u>Breanna Lash</u> Street: <u>700 Tech Ct</u> City: <u>Louisville</u> State: <u>CO</u> Zip: <u>80027</u> <input type="checkbox"/> Email Results: <u>DropBox</u> Ph: (<u>303</u>) <u>2615423</u> <input type="checkbox"/> Fx Results: () Billing (if different): _____				Analysis Requested				PO Number: <u>PO110747 QC 325</u> Project Number: <u>29Oct21 Residual Solvents</u> Project Name: <u>29Oct21 Residual Solvents</u> Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i> Sampled by: _____	
Lab ID	Client Sample Identification	Date	Time	Residual Solvents - CA			Sample Type †	Weight (Units)	Comments/Metric ID
	A01117M	10/29/21		✓					Please add description to COA: Both are: 60mg Organic Mint Chocolate 30mL
	A01118M	10/29/21		✓					
Relinquished By:			Date	Time	Received By:		Date	Time	Lab Use Only:
Breanna Lash					DS		11/17/21	9:41	Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>18.1°C</u> Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage: _____

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C)

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Portland, OR 97230

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info@columbiaboratories.com

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12423 NE Whitaker Way
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503-254-1794

Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41



**Hemp / Cannabis Usable / Extract
Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
ORELAP ID: OR100028

PRICING AND CHARGES

Prices to be charged for work performed for CUSTOMER are those currently published in the Columbia Laboratories (herein referred to as "the LAB". Standard pricing applies unless otherwise agreed in writing by the CUSTOMER and the LAB. CUSTOMER must notify the LAB of price quotation at the time of the transfer of sample(s) to the LAB. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation. Unless otherwise agreed upon, samples containing hazardous material will be shipped back to client at their expense, or disposed of at a certain fee, waste category dependent. New accounts are accepted with full payment in advance by cash, check, Visa or Mastercard. A credit line may be established with an approved credit application.

DELIVERY AND LIABILITY LIMITATIONS

The specific format of the goods will be defined by CUSTOMER to the LAB upon delivery of the sample(s) to the LAB. The LAB will analyze samples provided by CUSTOMER as requested by CUSTOMER in accordance with the procedures documented in the Quality Assurance Plan (QAP). Samples are retained for 30 days after receipt. If additional time is desired, then a written request is required, and an additional monthly fee will apply.

CONFIDENTIALITY

The LAB will treat all information regarding work performed for CUSTOMER as proprietary and confidential. No CUSTOMER information will be released to third persons without the written request of the CUSTOMER.

LIMITATION OF LIABILITY AND WARRANTY

The LAB gives no warranty, express or implied, or of fitness for a particular purpose, in connection with its analytical testing or reporting. Any liability of the LAB to CUSTOMER or any third party shall be limited to the cost of analysis charged to CUSTOMER.

PAST DUE ACCOUNTS

Credit line account are payable within 30 days. Accounts that are 60 days past due will incur 1 1/2% per month on all past due sums until paid in full and will automatically default to cash on delivery (COD). Reports will not be released unless payment on past and current invoices are received. Customer agrees to pay the interest as a service charge and all the LAB's collection costs, including reasonable attorney fees.

EXPERT TESTIMONY AND COURT APPEARANCES

In the event CUSTOMER requires the further written opinion or testimony of any employee of the LAB, including response to a subpoena issued by CUSTOMER or any third person, CUSTOMER agrees to pay such additional fees and expenses as may be reasonably assessed by the LAB.

ALTERNATIVE DISPUTE RESOLUTION (ADR)

Any disputes arising out of this Agreement or the analytical testing or reporting by the LAB shall be settled through mediation and/or arbitration rather than litigation, and the cost of the ADR shall be borne equally by both parties.

APPLICABLE LAW

Legal matters arising from work performed by the LAB for CUSTOMER will be construed and interpreted in accordance with the laws for the state of Oregon. When sending, transferring, or submitting samples, the CUSTOMER assumes full responsibility for complying with all applicable state and federal laws

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Retained by" you are agreeing to these terms
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Info@columbialaboratories.com
Page _____ of _____
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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41



Document ID: 3177 Revision: 2
Effective: 06/25/2021
Page 1 of 1

Job Number: _____ Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 11/1/21 Time: 9:41

Received By (Initials): DS Logged in by (Initials): _____ Date: _____ Time: _____

1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____

Does date match collection date on COC? _____ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?
 UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): 1Z 703 9X4 13 9995 500 1

5) Was packing material used? YES NO NA
Peanuts Bubble Wrap Foam Paper Other: _____

6) Was temperature upon receipt 4°C-- 2°C (if appropriate)? YES NO NA
If not, client contacted: _____
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA
What kind? Blue Ice Ice Cooler Packs Dry Ice

8) Were all sample containers sealed in separate plastic bags? YES NO NA

9) Did all sample containers arrive in good condition? YES NO NA

10) Were all sample container labels complete? YES NO NA

11) Did all sample container labels and tags agree with the COC? YES NO NA

12) Were correct sample containers used for the tests indicated? YES NO NA

13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA

14) Was a sufficient amount of sample sent in each sample container? YES NO NA

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: 18.1°C



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Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41

Revision: Document ID:
 Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents		Batch ID: 21170037							
Method Blank	Laboratory Control Sample								
	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		378	407	µg/g	92.9	70 - 130	
Isobutane	ND	< 200		467	491	µg/g	95.1	70 - 130	
Butane	ND	< 200		464	491	µg/g	94.5	70 - 130	
1,2-Dimethylpropane	ND	< 200		609	609	µg/g	100.0	70 - 130	
Methanol	ND	< 200		1870	1610	µg/g	116.1	70 - 130	
Ethylene Oxide	ND	< 30		35.9	38.9	µg/g	92.3	70 - 130	
2-Methylbutane	ND	< 200		1650	1610	µg/g	102.5	70 - 130	
Pentane	ND	< 200		1640	1610	µg/g	101.9	70 - 130	
Ethanol	ND	< 200		1720	1610	µg/g	106.8	70 - 130	
Ethyl Ether	ND	< 200		1480	1610	µg/g	91.9	70 - 130	
2,3-Dimethylbutane	ND	< 30		143	164	µg/g	87.2	70 - 130	
Acetone	ND	< 200		1630	1610	µg/g	101.2	70 - 130	
2-Propanol	ND	< 200		1740	1610	µg/g	108.1	70 - 130	
Acetonitrile	ND	< 100		507	484	µg/g	104.8	70 - 130	
2,3-Dimethylbutane	ND	< 30		173	167	µg/g	103.6	70 - 130	
Dichloromethane	ND	< 60		429	491	µg/g	87.4	70 - 130	
2-Methylbenzene	ND	< 30		158	165	µg/g	95.8	70 - 130	
3-Methylpentane	ND	< 30		166	172	µg/g	96.5	70 - 130	
Hexane	ND	< 30		160	167	µg/g	95.8	70 - 130	
Ethyl acetate	ND	< 200		1650	1610	µg/g	102.5	70 - 130	
2-Butanol	ND	< 200		1660	1610	µg/g	103.1	70 - 130	
Tetrahydrofuran	ND	< 100		440	483	µg/g	91.1	70 - 130	
Cyclohexane	ND	< 200		1340	1510	µg/g	88.2	70 - 130	
Benzene	ND	< 1		4.5	5.36	µg/g	84.0	70 - 130	
Isopropyl Acetate	ND	< 200		1820	1820	µg/g	112.3	70 - 130	
Heptane	ND	< 200		1770	1610	µg/g	109.9	70 - 130	
1,4-Dioxane	ND	< 100		405	489	µg/g	82.8	70 - 130	
2-Ethoxyethanol	ND	< 30		183	167	µg/g	109.6	70 - 130	
Ethylene Glycol	ND	< 200		527	504	µg/g	104.6	70 - 130	
Toluene	ND	< 200		394	484	µg/g	81.4	70 - 130	
Ethylbenzene	ND	< 200		771	968	µg/g	79.6	70 - 130	
m,p-Xylene	ND	< 200		797	977	µg/g	81.6	70 - 130	
o-Xylene	ND	< 200		787	982	µg/g	80.1	70 - 130	
Cumene	ND	< 30		174	169	µg/g	73.4	70 - 130	



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Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41

Revision: Document ID:
Legacy ID: Effective:

QC - Sample Duplicate Sample ID: 21-012816-0001

Analyte	Result	Orig. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpropane	ND	ND	20	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Naphtane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

µg/g - Microgram per gram or ppm



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 Portland, OR 97230
 503-254-1794

Report Number: 21-012829/D002.R000
Report Date: 11/09/2021
ORELAP#: OR100028
Purchase Order: PO110747 QC 325
Received: 11/01/21 09:41



Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.