

Prepared for:

CBDCLINIC Level 5 Pain Relief Stick
CWB HOLDINGS, INC


Batch ID or Lot Number: V0321341	Test: Potency	Reported: 12/14/21	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000181149	Started: 12/13/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/10/2021 @ 12:59 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.017	0.050	ND	ND	Total THC per container (40g)=ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.019	0.057	ND	ND	
Cannabidiolic acid (CBDA)	0.016	0.056	ND	ND	
Cannabidiol (CBD)	0.016	0.055	0.965	9.65	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.021	0.062	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.036	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabigerolic acid (CBGA)	0.017	0.052	ND	ND	
Cannabigerol (CBG)	0.004	0.013	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.015	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.023	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.007*	0.07*	
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabichromene (CBC)	0.007	0.022	ND	ND	
Total Cannabinoids			0.972	9.72	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.965	9.65	


 Karen Winternheimer
 14-Dec-2021
 06:06 PM


 Daniel Weidensaul
 14-Dec-21
 6:17 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)

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:

CBDCLINIC Level 5 Pain Relief Stick
CWB HOLDINGS, INC

Batch ID or Lot Number: V0321341	Test: Potency	Reported: 12/14/21	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000181150	Started: 12/13/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/10/2021 @ 12:59 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.016	0.049	ND	ND	Total THC per container (40g)=ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.018	0.056	ND	ND	
Cannabidiolic acid (CBDA)	0.016	0.055	ND	ND	
Cannabidiol (CBD)	0.015	0.054	0.966	9.66	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.061	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.035	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabigerolic acid (CBGA)	0.017	0.052	ND	ND	
Cannabigerol (CBG)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.023	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.006*	0.06*	
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabichromene (CBC)	0.007	0.022	ND	ND	
Total Cannabinoids			0.972	9.72	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.966	9.66	

K Winterheimer
 Karen Winterheimer
 14-Dec-2021
 06:06 PM

Daniel Weidensaul
 Daniel Weidensaul
 14-Dec-21
 6:17 PM

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Definitions

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* 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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CWB HOLDINGS, INC


Batch ID or Lot Number: V0321341	Test: Potency	Reported: 12/14/21	Location: 700 Tech Ct. Louisville, CO 80027
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Matrix: Concentrate	Test ID: T000181151	Started: 12/13/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 12/10/2021 @ 12:59 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.016	0.050	ND	ND	Total THC per container (40g)=ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.019	0.056	ND	ND	
Cannabidiolic acid (CBDA)	0.016	0.055	ND	ND	
Cannabidiol (CBD)	0.015	0.054	0.990	9.90	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.062	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.035	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabigerolic acid (CBGA)	0.017	0.052	ND	ND	
Cannabigerol (CBG)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.023	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.006*	0.06*	
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabichromene (CBC)	0.007	0.022	ND	ND	
Total Cannabinoids			0.996	9.96	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.990	9.90	


 Karen Winternheimer
 14-Dec-2021
 06:06 PM


 Daniel Weidensaul
 14-Dec-21
 6:17 PM

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Definitions

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

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

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



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



Report Number: 21-014482/D002.R000
Report Date: 12/16/2021
ORELAP#: OR100028
Purchase Order:
Received: 12/10/21 11:42

Customer: Charlotte's Web
Product identity: V0321341
Client/Metric ID: CBDCLINIC Level 5 Pain Relief Stick
Laboratory ID: 21-014482-0001

Summary

Terpenes:

Analyte	Percent by weight	Analyte	Percent by weight
Menthol	15.0	(±)-Camphor	10.2



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Received: 12/10/21 11:42

Customer: Charlotte's Web
Product identity: V0321341
Client/Metric ID: CBDCLINIC Level 5 Pain Relief Stick
Sample Date:
Laboratory ID: 21-014482-0001
Evidence of Cooling: No
Temp: 19.5 °C
Relinquished by: UPS

Sample Results

Terpenes	Method J AOAC 2015 V98-6		Units %	Batch 2111170	Analyze 12/15/21 12:00 AM	
Analyte	Result	LOQ	Analyte	Result	LOQ	
Menthol	15.0	0.192	(±)-Camphor	10.2	0.192	



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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

% = Percentage of sample

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

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 21-014482/D002.R000
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ORELAP#: OR100028
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Received: 12/10/21 11:42

Revision: Document ID:
Legacy ID: Effective:

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2111170					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		513	500	µg/g	103%	70 - 130	
Camphene	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
Sabinene	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
b-Pinene	<LOQ	< 200		556	500	µg/g	111%	70 - 130	
b-Myrcene	<LOQ	< 200		452	500	µg/g	90%	70 - 130	
a-phellandrene	<LOQ	< 200		437	500	µg/g	87%	70 - 130	
d-3-Carene	<LOQ	< 200		518	500	µg/g	104%	70 - 130	
a-Terpinene	<LOQ	< 200		514	500	µg/g	103%	70 - 130	
p-Cymene	<LOQ	< 200		468	500	µg/g	94%	70 - 130	
D-Limonene	<LOQ	< 200		533	500	µg/g	107%	70 - 130	
Eucalyptol	<LOQ	< 200		494	500	µg/g	99%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		151	167	µg/g	91%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		308	333	µg/g	93%	70 - 130	
g-Terpinene	<LOQ	< 200		500	500	µg/g	100%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		520	500	µg/g	104%	70 - 130	
Terpinolene	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
D-Fenchone	<LOQ	< 200		516	500	µg/g	103%	70 - 130	
Linalool	<LOQ	< 200		494	500	µg/g	99%	70 - 130	
Fenchol	<LOQ	< 200		553	500	µg/g	111%	70 - 130	
Camphor	<LOQ	< 200		477	500	µg/g	95%	70 - 130	
Isopulego	<LOQ	< 200		427	500	µg/g	85%	70 - 130	
Isoborneol	<LOQ	< 200		487	500	µg/g	97%	70 - 130	
Borneol	<LOQ	< 200		571	500	µg/g	114%	70 - 130	
DL-Menthol	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
Terpineol	<LOQ	< 200		530	500	µg/g	106%	70 - 130	
Nerol	<LOQ	< 200		457	500	µg/g	91%	70 - 130	
Pulegone	<LOQ	< 200		544	500	µg/g	109%	70 - 130	
Geraniol	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		472	500	µg/g	94%	70 - 130	
a-Cedrene	<LOQ	< 200		578	500	µg/g	116%	70 - 130	
b-Caryophyllene	<LOQ	< 200		531	500	µg/g	106%	70 - 130	
a-Humulene	<LOQ	< 200		585	500	µg/g	117%	70 - 130	
Valenene	<LOQ	< 200		448	500	µg/g	90%	70 - 130	
cis-Nerolidol	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
a-Farnesene	<LOQ	< 200		521	500	µg/g	104%	70 - 130	
trans-Nerolidol	<LOQ	< 200		605	500	µg/g	121%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		528	500	µg/g	106%	70 - 130	
Guaiol	<LOQ	< 200		617	500	µg/g	123%	70 - 130	
Cedrol	<LOQ	< 200		525	500	µg/g	105%	70 - 130	
a-Bisabolol	<LOQ	< 200		526	500	µg/g	105%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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 Portland, OR 97230
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Received: 12/10/21 11:42

Revision: Document ID:
 Legacy ID: Effective:

Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2111170					
Sample/Sample Duplicate		Sample ID: 21-014208-0010					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-Myrcene	2440	2320	193	µg/g	5%	< 20	
a-phellandrene	<LOQ	<LOQ	193	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	193	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	64.2	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	128	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	193	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	193	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	193	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	193	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	193	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	193	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	193	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	193	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-Caryophyllene	1000	987	193	µg/g	1%	< 20	
a-Humulene	2980	2940	193	µg/g	1%	< 20	
Valenene	<LOQ	<LOQ	193	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	193	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	193	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	193	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of ISO/IEC 17025:2017 and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



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



Report Number: 21-014482/D002.R000
Report Date: 12/16/2021
ORELAP#: OR100028
Purchase Order:
Received: 12/10/21 11:42

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.

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	V0321341	Eurofins Sample:	11229413
Project ID	CHARLO_WEB-20211208-0462	Receipt Date	10-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	CBDCLINIC Level 5 Pain Relief Stick	Login Date	08-Dec-2021
		Date Started	13-Dec-2021
		Sampled	Sample results apply as received
		Online Order	18706-1673745E

Analysis	Result
Elements by ICP Mass Spectrometry	
Arsenic	<100 ppb
Cadmium	<50.0 ppb
Lead	<50.0 ppb
Mercury	<50.0 ppb
Glyphosate and AMPA	
Glyphosate	<100 ng/g
AMPA	<100 ng/g

Analysis	Limit	Result	Pass/Fail
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	20 ppb	<1.00 ppb	Pass
Sum of B1 B2 G1 and G2	20 ppb	<2.00 ppb	Pass
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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	V0321341	Eurofins Sample:	11229413
Project ID	CHARLO_WEB-20211208-0462	Receipt Date	10-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	CBDCLINIC Level 5 Pain Relief Stick	Login Date	08-Dec-2021
		Date Started	13-Dec-2021
		Sampled	Sample results apply as received
		Online Order	18706-1673745E

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

Analysis	Limit	Result	Pass/Fail
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.

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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	V0321341	Eurofins Sample:	11229413
Project ID	CHARLO_WEB-20211208-0462	Receipt Date	10-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	CBDCLINIC Level 5 Pain Relief Stick	Login Date	08-Dec-2021
		Date Started	13-Dec-2021
		Sampled	Sample results apply as received
		Online Order	18706-1673745E

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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	V0321341	Eurofins Sample:	11229413
Project ID	CHARLO_WEB-20211208-0462	Receipt Date	10-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	CBDCLINIC Level 5 Pain Relief Stick	Login Date	08-Dec-2021
		Date Started	13-Dec-2021
		Sampled	Sample results apply as received
		Online Order	18706-1673745E

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

Certificate of Analysis

Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Sample Name:	V0321341	Eurofins Sample:	11229413
Project ID	CHARLO_WEB-20211208-0462	Receipt Date	10-Dec-2021
PO Number	PO110845 QC 325	Receipt Condition	Ambient temperature
Description	CBDCLINIC Level 5 Pain Relief Stick	Login Date	08-Dec-2021
		Date Started	13-Dec-2021
		Sampled	Sample results apply as received
		Online Order	18706-1673745E

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

Method References

Testing Location

BCC - Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Internally Developed Method

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).

Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Glyphosate and AMPA (GLY_AMPAS)

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".

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Charlotte's Web, Inc.

700 Tech Court
Louisville Colorado 80027

Method References	Testing Location
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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).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

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

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," *Analytical and BioAnalytical Chemistry*, 402:2675-2686 (2012).

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**

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.

Eurofins Microbiology Laboratory (Colorado)

 1371 Horizon Avenue
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 Micro-Colorado@eurofinsUS.com

CW Hemp - 02

Client Code: EI0000236

PO#: QC 325

 Breanna Lash
 700 Tech Ct
 Louisville, CO 80026

ANALYTICAL REPORT

AR-22-EI-002781-01

Received On: 28Jan2022

Reported On: 07Feb2022

Eurofins Sample Code: 397-2022-01280087	Sample Registration Date: 28Jan2022
Client Sample Code: V0321341 - B	Condition Upon Receipt: acceptable, 18.9°C
Sample Description: CBDCLINIC Level 5 Pain Relief Stick	Sample Reference:

UM4BV - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 02Feb2022
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Parameter Yeast	Result < 10 cfu/g
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Parameter Moulds	Result < 10 cfu/g
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UM73J - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
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Parameter Coliforms	Result < 10 cfu/g
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Parameter Escherichia coli	Result < 10 cfu/g
--------------------------------------	-----------------------------

UMDTC - Salmonella species - AOAC-RI 121501	Reference AOAC-RI 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 29Jan2022
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Parameter Salmonella	Result Not Detected per 25 g
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UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
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Parameter Staphylococcus aureus	Result < 10 cfu/g
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CW Hemp - 02

Breanna Lash
700 Tech Ct
Louisville, CO 80026

ANALYTICAL REPORT

AR-22-EI-002781-01

Client Code: EI0000236
PO#: QC 325

Received On: 28Jan2022
Reported On: 07Feb2022

Eurofins Sample Code: 397-2022-01280087	Sample Registration Date: 28Jan2022
Client Sample Code: V0321341 - B	Condition Upon Receipt: acceptable, 18.9°C
Sample Description: CBDCLINIC Level 5 Pain Relief Stick	Sample Reference:

UMMFL - Aerobic Plate Count - AOAC 966.23	Reference AOAC 966.23	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
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Parameter Aerobic Plate Count	Result < 10 cfu/g
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UMQDX - Listeria species - AOAC-RI 061702	Reference AOAC-RI 061702	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 29Jan2022
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Parameter Listeria Species	Result Not Detected per 25 g
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ZMCKG - Pseudomonas aeruginosa - USF <62>	Reference USP <62>	Completed 07Feb2022	Sub 1
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Parameter Pseudomonas aeruginosa	Result Not Detected per 10 g
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ZMCLT - Pseudomonas aeruginosa Suitability - USP Chapter <62>	Reference U.S. Pharmacopeia Chapter 62	Completed 07Feb2022	Sub 1
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Parameter Pseudomonas aeruginosa Suitability	Result PASS per sample
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Subcontracting partners:
1 - Eurofins Microbiology Lab Madison, WI

Respectfully Submitted,



Kiley Ridgway
Operations Support Specialist II

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Eurofins Microbiology Laboratory (Colorado)

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CW Hemp - 02

Client Code: EI0000236
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ANALYTICAL REPORT

AR-22-EI-002782-01

Received On: 28Jan2022
Reported On: 07Feb2022

Eurofins Sample Code: 397-2022-01280088		Sample Registration Date: 28Jan2022	
Client Sample Code: V0321341 - M		Condition Upon Receipt: acceptable, 18.9°C	
Sample Description: CBDCLINIC Level 5 Pain Relief Stick		Sample Reference:	
UM4BV - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 02Feb2022
Parameter Yeast	Result < 10 cfu/g		
Parameter Moulds	Result < 10 cfu/g		
UM73J - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
Parameter Coliforms	Result < 10 cfu/g		
Parameter Escherichia coli	Result < 10 cfu/g		
UMDTC - Salmonella species - AOAC-RI 121501	Reference AOAC-RI 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 29Jan2022
Parameter Salmonella	Result Not Detected per 25 g		
UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
Parameter Staphylococcus aureus	Result < 10 cfu/g		

ANALYTICAL REPORT

AR-22-EI-002782-01

Eurofins Sample Code: 397-2022-01280088		Sample Registration Date: 28Jan2022	
Client Sample Code: V0321341 - M		Condition Upon Receipt: acceptable, 18.9°C	
Sample Description: CBDCLINIC Level 5 Pain Relief Stick		Sample Reference:	
UMMFL - Aerobic Plate Count - AOAC 966.23	Reference AOAC 966.23	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022

Parameter Aerobic Plate Count	Result < 10 cfu/g
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UMQDX - Listeria species - AOAC-RI 061702	Reference AOAC-RI 061702	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 29Jan2022
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Parameter Listeria Species	Result Not Detected per 25 g
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ZMCKG - Pseudomonas aeruginosa - USF <62>	Reference USP <62>	Completed 07Feb2022	Sub 1
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Parameter Pseudomonas aeruginosa	Result Not Detected per 10 g
--	--

ZMCLT - Pseudomonas aeruginosa Suitability - USP Chapter <62>	Reference U.S. Pharmacopeia Chapter 62	Completed 07Feb2022	Sub 1
--	--	-------------------------------	-----------------

Parameter Pseudomonas aeruginosa Suitability	Result PASS per sample
--	----------------------------------

Subcontracting partners:
1 - Eurofins Microbiology Lab Madison, WI

Respectfully Submitted,



Kiley Ridgway
Operations Support Specialist II

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Eurofins Microbiology Laboratory (Colorado)

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CW Hemp - 02

Client Code: EI0000236

PO#: QC 325

 Breanna Lash
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 Louisville, CO 80026

ANALYTICAL REPORT

AR-22-EI-002783-01

Received On: 28Jan2022

Reported On: 07Feb2022

Eurofins Sample Code: 397-2022-01280089	Sample Registration Date: 28Jan2022		
Client Sample Code: V0321341 - E	Condition Upon Receipt: acceptable, 18.9°C		
Sample Description: CBDCLINIC Level 5 Pain Relief Stick	Sample Reference:		
UM4BV - Yeast - FDA BAM Chapter 18 mod.	Reference FDA BAM Chapter 18 mod.	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 02Feb2022

Parameter Yeast	Result < 10 cfu/g
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Parameter Moulds	Result < 10 cfu/g
----------------------------	-----------------------------

UM73J - Total Coliforms - AOAC 991.14	Reference AOAC 991.14	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
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Parameter Coliforms	Result < 10 cfu/g
-------------------------------	-----------------------------

Parameter Escherichia coli	Result < 10 cfu/g
--------------------------------------	-----------------------------

UMDTC - Salmonella species - AOAC-RI 121501	Reference AOAC-RI 121501	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 29Jan2022
--	------------------------------------	--	-------------------------------

Parameter Salmonella	Result Not Detected per 25 g
--------------------------------	--

UMHBM - Staphylococcus aureus - BAM Chapter 12	Reference BAM Chapter 12	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
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Parameter Staphylococcus aureus	Result < 10 cfu/g
---	-----------------------------

ANALYTICAL REPORT

AR-22-EI-002783-01

Eurofins Sample Code: 397-2022-01280089 **Sample Registration Date:** 28Jan2022
Client Sample Code: V0321341 - E **Condition Upon Receipt:** acceptable, 18.9°C

Sample Description: CBDCLINIC Level 5 Pain Relief Stick **Sample Reference:**

UMMFL - Aerobic Plate Count - AOAC 966.23	Reference AOAC 966.23	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 30Jan2022
--	---------------------------------	--	-------------------------------

Parameter Aerobic Plate Count	Result < 10 cfu/g
---	-----------------------------

UMQDX - Listeria species - AOAC-RI 061702	Reference AOAC-RI 061702	Accreditation ISO/IEC 17025:2017 A2LA 3329.11	Completed 29Jan2022
--	------------------------------------	--	-------------------------------

Parameter Listeria Species	Result Not Detected per 25 g
--------------------------------------	--

ZMCKG - Pseudomonas aeruginosa - USF <62>	Reference USP <62>	Completed 07Feb2022	Sub 1
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Parameter Pseudomonas aeruginosa	Result Not Detected per 10 g
--	--

ZMCLT - Pseudomonas aeruginosa Suitability - USP Chapter <62>	Reference U.S. Pharmacopeia Chapter 62	Completed 07Feb2022	Sub 1
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Parameter Pseudomonas aeruginosa Suitability	Result PASS per sample
--	----------------------------------

Subcontracting partners:
1 - Eurofins Microbiology Lab Madison, WI

Respectfully Submitted,



Kiley Ridgway
Operations Support Specialist II

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