CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic - CBD Tincture - Mint

PRODUCT STRENGTH: 900 mg per bottle

TINCTURE BATCH: 22067B **BEST BY DATE:** 09/08/2023 **HEMP EXTRACT LOT:** C1116-001

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Olive, Hemp, Mint	PASS
Appearance	Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	LOQ*: ≥ 900 mg / bottle	1066.74 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	Below LOQ	PASS
Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram**	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Coliforms	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	Below LOQ	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 20ppb Ochratoxin < 20 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS

^{*}Level of Quantification

Values expressed in scientific notation. Examples: 10^2=100 10^3=1,000

Quality Certified

Keegan Schlittler
Keegan Schlittler

03/15/2022

Date

Quality Assurance Manager

^{**}Colony Forming Units per Gram † Parts Per Million †† Part Per Billion



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Notes

Density = 0.92g/mL

27835

Batch ID or Lot Number: Test: Reported:

C1116-001 Potency 11/23/21

Matrix: Test ID: Started: USDA License: Solution T000177397 11/22/21 N/A

Status: Method: Received: Sampler ID:

N/A TM14 (HPLC-DAD): Potency – 11/19/2021 @ 10:26 AM N/A

(Colorado Panel)

Standard Cannabinoid Analysis

CANNABINOID PROFILE

0.164 0.185 0.176	0.465 0.524 0.541	ND ND	ND ND
0.176			ND
	0.541	ND	
		ND	ND
0.172	0.528	35.558	38.65
0.204	0.577	ND	ND
0.117	0.331	ND	ND
0.053	0.151	ND	ND
0.171	0.485	ND	ND
0.041	0.116	2.421	2.63
0.144	0.410	ND	ND
0.037	0.105	ND	ND
0.073	0.226	ND	ND
0.041	0.125	0.252	0.27
0.066	0.187	ND	ND
0.072	0.204	ND	ND
	0.204 0.117 0.053 0.171 0.041 0.144 0.037 0.073 0.041 0.066	0.204 0.577 0.117 0.331 0.053 0.151 0.171 0.485 0.041 0.116 0.144 0.410 0.037 0.105 0.073 0.226 0.041 0.125 0.066 0.187	0.204 0.577 ND 0.117 0.331 ND 0.053 0.151 ND 0.171 0.485 ND 0.041 0.116 2.421 0.144 0.410 ND 0.037 0.105 ND 0.073 0.226 ND 0.041 0.125 0.252 0.066 0.187 ND

Total Cannabinoids	38.231	41.56
Total Potential THC**	ND	ND
Total Potential CBD**	35.558	38.65

23-Nov-21 5:13 PM

Ryan Weems

PREPARED BY / DATE

Daniel Wantament

APPROVED BY / DATE

Definitions

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

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

Daniel Weidensaul

23-Nov-2021

05:10 PM

** 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







27835

Batch ID or Lot Number: Reported: Test: C1116-001 **Pesticides** 11/29/21 Test ID: **USDA License:** Matrix: Started: T000177398 Concentrate 11/29/21 N/A Method: Sampler ID: Status: Received: TM17(LC-QQQ LC MS/MS): N/A 11/19/2021 @ 10:26 AM N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	34	ND	Fenoxycarb	47	ND	Paclobutrazol	43	ND
Acetamiprid	43	ND	Fipronil	2	ND	Permethrin	283	ND
Avermectin	274	ND	Flonicamid	47	ND	Phosmet	36	ND
Azoxystrobin	46	ND	Fludioxonil	292	ND	Prophos	283	ND
Bifenazate	43	ND	Hexythiazox	41	ND	Propoxur	43	ND
Boscalid	55	ND	Imazalil	286	ND	Pyridaben	287	ND
Carbaryl	41	ND	Imidacloprid	48	ND	Spinosad A	35	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	51	ND
Chlorantraniliprole	47	ND	Malathion	294	ND	Spiromesifen	274	ND
Chlorpyrifos	500	ND	Metalaxyl	45	ND	Spirotetramat	287	ND
Clofentezine	281	ND	Methiocarb	41	ND	Spiroxamine 1	29	ND
Diazinon	285	ND	Methomyl	42	ND	Spiroxamine 2	27	ND
Dichlorvos	320	ND	MGK 264 1	158	ND	Tebuconazole	289	ND
Dimethoate	45	ND	MGK 264 2	127	ND	Thiacloprid	43	ND
E-Fenpyroximate	287	ND	Myclobutanil	42	ND	Thiamethoxam	36	ND
Etofenprox	46	ND	Naled	41	ND	Trifloxystrobin	48	ND
Etoxazole	296	ND	Oxamyl	1500	ND			

Samantha Small

Sam Smith 11/29/2021 5:56:00 PM

Daniel Wardonsaul

Daniel Weidensaul 11/29/2021 6:39:00 PM

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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OTM900

Batch ID or Lot Number: Reported: Test: 22067B **Microbial** 3/14/22

Contaminants

Test ID: Started: **USDA License:** Matrix:

Finished Product T000196966 3/9/22 N/A

Sampler ID: Status: Methods: Received:

TM25 (qPCR) 03/08/2022 @ 12:47 PM N/A N/A

TM24, TM26, TM27(Culture Plating):

Microbial

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
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
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Eden Thompson

Eden Thompson-Wright 3/12/2022 12:48:00 PM

Buanne Maillot

Brianne Maillot 3/14/2022 9:51:00 AM

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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: $10^2 = 100 CFU$

10^3 = 1.000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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27835

Batch ID or Lot Number: C1116-001	Test: Metals	Reported: 11/23/21	
Matrix: Unit Co	Test ID: T000177400	Started: 11/22/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 11/19/2021 @ 10:26 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.040 - 4.04	ND	_
Cadmium	0.042 - 4.23	ND	
Mercury	0.042 - 4.15	ND	
Lead	0.042 - 4.23	ND	

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Ryan Weems 23-Nov-21 1:03 PM

Samantha Smill

Sam Smith 23-Nov-21 1:07 PM

PREPARED BY / DATE

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Definitions

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



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27835

Batch ID or Lot Number: Test: Reported:

C1116-001 Mycotoxins 11/29/21

Matrix: Test ID: Started: USDA License:

Concentrate T000177402 11/24/21 N/A

Status: Method: Received: Sampler ID:

N/A TM18 (UHPLC-QQQ LCMS/MS): 11/19/2021 @ 10:26 AM N/A

Mycotoxins (Colorado Panel)

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.3 - 132.8	ND	N/A
Aflatoxin B1	1.2 - 33.7	ND	
Aflatoxin B2	1.2 - 33.8	ND	
Aflatoxin G1	1.2 - 33.9	ND	
Aflatoxin G2	1.2 - 33	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Mygun Veus

Ryan Weems 29-Nov-21 3:49 PM

Samantha Smil

Sam Smith 29-Nov-21 4:04 PM

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Definitions

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

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27835

Batch ID or Lot Number: C1116-001	Test: Residual Solvents	Reported: 11/24/21		
Matrix: N/A	Test ID: T000177401	Started: 11/23/21	USDA License: N/A	
Status: N/A	Methods: TM04 (GC-MS): Residual Solven (Colorado Panel)	Received: ats 11/19/2021 @ 10:26 AM	Sampler ID: N/A	

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1815	*ND	
Butanes (Isobutane, n-Butane)	181 - 3630	*ND	
Methanol	55 - 1109	*ND	
Pentane	75 - 1507	*ND	
Ethanol	80 - 1601	*ND	
Acetone	89 - 1771	*ND	
Isopropyl Alcohol	95 - 1897	*ND	
Hexane	5 - 108	*ND	
Ethyl Acetate	91 - 1811	*ND	
Benzene	0.2 - 3.6	*ND	
Heptanes	85 - 1692	*ND	
Toluene	16 - 328	*ND	
Xylenes (m.n.o-Xylenes)	119 - 2374	*ND	

Samantha Small

Sam Smith 24-Nov-21 2:14 PM

Myen Veus

Ryan Weems 24-Nov-21 2:15 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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



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