

CERTIFICATE OF ANALYSIS

PRODUCT NAME: *Certified Organic CBD Tincture - Mint
PRODUCT STRENGTH: 1350 mg per bottle
TINCTURE BATCH: 21277A
BEST BY DATE: 04/04/2023
HEMP EXTRACT LOT: C0524-003

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Olive and Hemp, Minty	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**: ≥ 1350 mg / bottle	1473.9 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†† Aflatoxin B1 <20 ppb 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

*Only applies to products with labels claiming certified organic

**Level of Quantification

***Colony Forming Units per Gram

† Parts Per Million †† Part Per Billion

Values expressed in scientific notation.

Examples:

$10^2=100$

$10^3=1,000$

Quality Certified

Kayla Kolber

Kayla Kolber

Quality Assurance Technician

10/11/2021

Date



C0524-003

7USC1639 Certificate of Analysis

man. date 5/24/2021

total cannabinoids **1575.4mg** per 30mL

THC† ND CBD† 1473.9m terpenes

This Product Has Been Tested and Complies with 7USC1639o(1)

Stillwater Laboratories

certificate ID
1ET46

order 10848

analysis date 5/25/2021 3:34:44 PM

test tag S1HYQ

sample wgt

Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample received in a client-labeled bottle, collected at dispensary/grow. 1 and sample tag S1HYQ

caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool

infused

Potency per 30mL

	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
total CBD†	1473.9mg	0.07	0.20	±24.92mg
total CBD (CBD+CBDa)	1473.9mg	0.07	0.20	±24.92mg
tetrahydrocannabinolic acid (THCa)	ND	0.07	0.20	±0.20mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.06	0.19	±0.19mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.08	0.25	±0.25mg
tetrahydrocannabinavarin (THCv)	ND	0.07	0.21	±0.21mg
cannabidiolic acid (CBDa)	ND	0.06	0.17	±0.17mg
cannabidiol (CBD)	1473.9mg	0.07	0.20	±24.92mg
cannabidivarin (CBDv)	ND	0.07	0.20	±0.20mg
cannabigerolic acid (CBGa)	ND	0.06	0.18	±0.18mg
cannabigerol (CBG)	101.4mg	0.02	0.06	±1.76mg
cannabinol (CBN)	ND	0.04	0.11	±0.11mg
cannabichromene (CBC)	ND	0.07	0.20	±0.20mg

Terpenes

MSP-7.5.1.6

MSP-7.5.1.6

† = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

Microbial

MSP-7.5.1.10

limit

Metals

MSP-7.5.1.11

limit

Pesticides

MSP-7.5.1.8

limit

Pesticides

MSP-7.5.1.8

limit

E.coli	PASS	0CFU	Arsenic	PASS	1500 ppb	Abamectin	PASS	0.30 ppm	Fipronil	PASS	0.00 ppm
Salmonella sp.	PASS	0CFU	Cadmium	PASS	500 ppb	Acephate	PASS	5.00 ppm	Flonicamid	PASS	2.00 ppm
molds	PASS	10000CFU	Lead	PASS	500 ppb	Acequinocyl	PASS	4.00 ppm	Fludioxonil	PASS	30.00
Ochratoxin A	PASS	20 ppb	Mercury	PASS	300 ppb	Acetamiprid	PASS	5.00 ppm	Hexythiazox	PASS	2.00 ppm
Aflatoxin	PASS	20 ppb				Aldicarb	PASS	0.00 ppm	Imazalil	PASS	0.00 ppm
Solvents	MSP-7.5.1.7	limit	Pesticides	MSP-7.5.1.8	limit	Azoxystrobin	PASS	40.00	Imidacloprid	PASS	3.00 ppm
Acetone	PASS	5000 ppm	Permethrin	PASS	20.00 ppm	Bifenazate	PASS	5.00 ppm	Malathion	PASS	5.00 ppm
Acetonitrile	PASS	410 ppm	Phosmet	PASS	0.20 ppm	Bifenthrin	PASS	0.50 ppm	Metalaxyl	PASS	15.00
Benzene	PASS	0 ppm	Piperonylbutoxide	PASS	8.00 ppm	Boscalid	PASS	10.00	Methiocarb	PASS	0.00 ppm
Butane	PASS	5000 ppm	Prallethrin	PASS	0.40 ppm	Carbaryl	PASS	0.30 ppm	Methomyl	PASS	0.10 ppm
Chloroform	PASS	0 ppm	Propiconazole	PASS	20.00 ppm	Carbofuran	PASS	0.00 ppm	Methyl parathion	PASS	0.00 ppm
Cyclohexane	PASS	0 ppm	Propoxur	PASS	0.00 ppm	Chloanthraniliprole	PASS	40.00	Mevinphos	PASS	0.00 ppm
Ethanol	PASS	10000 ppm	Pyrethrin	PASS	1.00 ppm	Chlorfenapyr	PASS	0.00 ppm	Myclobutanil	PASS	9.00 ppm
Heptane	PASS	5000 ppm	Pyridaben	PASS	3.00 ppm	Chlorpyrifos	PASS	0.00 ppm	Naled	PASS	0.50 ppm
Hexane	PASS	290 ppm	Spinetoram	PASS	3.00 ppm	Clofentazine	PASS	0.50 ppm	Oxamyl	PASS	0.20 ppm
Isopropyl alcohol	PASS	5000 ppm	Spinosad	PASS	3.00 ppm	Coumaphos	PASS	0.00 ppm	Paclobutrazol	PASS	0.00 ppm
Methanol	PASS	3000 ppm	Spiromesifen	PASS	12.00 ppm	Cyfluthrin	PASS	1.00 ppm	Permethrin	PASS	20.00
Pentane	PASS	5000 ppm	Spirotetramat	PASS	13.00 ppm	Cypermethrin	PASS	1.00 ppm			
Propane	PASS	5000 ppm	Spiroxamine	PASS	0.00 ppm	Daminozide	PASS	0.00 ppm			
Toluene	PASS	890 ppm	Tebuconazole	PASS	2.00 ppm	Dichlorvos	PASS	0.00 ppm			
Xylenes	PASS	2170 ppm	Thiacloprid	PASS	0.10 ppm	Diazinon	PASS	0.20 ppm			
			Thiamethoxam	PASS	4.50 ppm	Dimethoate	PASS	0.00 ppm			
			Trifloxystrobin	PASS	30.00 ppm	Etoazoxole	PASS	1.50 ppm			
						Fenoxycarb	PASS	0.00 ppm			
						Fenpyroximate	PASS	2.00 ppm			

INSTRUMENTS
 potency: HPLC (LC2030C-UV)
 terpenes: GCMS (QP2020/HS20)
 solvents: GCMS (QP2020/HS20)
 pesticides: LCMSMS (LC8060)
 mycotoxins: LCMSMS (LC8060)
 microbial: qPCR (AriaMx) and plating
 metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director

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 406-881-2019

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<https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-871A-419DCF43B0D7>

OTM1350

Batch ID or Lot Number: 21277A	Test: Microbial Contaminants	Reported: 10/8/21	
Matrix: Finished Product	Test ID: T000167499	Started: 10/5/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 10/05/2021 @ 10:49 AM	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 ² CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ² 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	



 Carly Bader
 10/8/2021
 4:41:00 PM

PREPARED BY / DATE



 Jackson Osaghae-Nosa
 10/8/2021
 4:51:00 PM

APPROVED BY / DATE

Definitions

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

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

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

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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