

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic - CBD Tincture - Orange

PRODUCT STRENGTH: 900 mg / bottle

TINCTURE BATCH: 21278A **BEST BY DATE:** 04/05/2023 **HEMP EXTRACT LOT:** C0218-003

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and Hemp, Orange	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Joy 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	$LOQ*: \ge 900 \text{ mg / bottle}$	975.6 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 < 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

^{*}Level of Quantification

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

Quality Certified

Kayla Kolber

Kayla Kolber 10/12/2021

Date

Quality Assurance Technician

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



certificate ID

1BS27

C0218-003

7USC1639 Certificate of Analysis

2/22/2021 man date

total cannabinoids 1025.9mg

per 30 mL

THC total

CBD total 975.6mg

terpenes

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

MIP

MSP-7.5.1.6

order 9903

analysis date 2/22/2021 5:32:07 PM

test tag S1BWM

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 S1BWM.

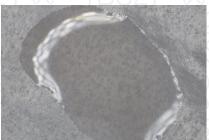
caryophyllene humulene terpinolene beta pinene alpha pinene

limonene myrcene linalool

Terpenes



MSP-7.5.1.6



error LOQ (95%Cl k=2) Potency per 30 mL MSP-7.5.1.4 ND tetrahydrocannabolic acid (THCa) 0.08 | 0.24 | ±0.24mg ND 0.07 | 0.22 | ±0.22mg Δ9-tetrahydrocannabinol (Δ9 THC) Δ8-tetrahydrocannabinol (Δ8 THC) ND 0.10 | 0.30 | ±0.30mg tetrahydrocannabivarin (THCv) ND 0.08 | 0.25 | ±0.25mg ND cannabidiolic acid (CBDa) 0.07 | 0.20 | ±0.20mg cannabidiol (CBD) 975.6mg 0.08 | 0.23 | ±16.75mg 0.08 | 0.23 | ±0.27mg cannabidivarin (CBDv) 2.0mg cannabigerolic acid (CBGa) ND 0.07 | 0.21 | ±0.21mg cannabigerol (CBG) 48.0mg 0.04 | 0.13 | ±0.94mg 0.04 | 0.13 | ±0.13mg cannabinol (CBN) 0.4mg cannabichromene (CBC) ND 0.08 | 0.23 | ±0.23mg

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

Microbial	ISP-7.5.1.1	0 limit	Metals M	SP-7.5.1.1	1 /limit _	Pes
———E.coli	PASS	0CFU	Arsenic	PASS	1500 ppb	
Salmonella sp.	PASS	0CFU	Cadmium	PASS	500 ppb	
molds	PASS	10000CFU	Lead	PASS	500 ppb	
Ochratoxin A	PASS	20 ppb	Mercury	PASS	300 ppb	
Aflatoxin	PASS	20 ppb				
Solvents	ISP-7.5.1.7	limit	Pesticides	ISP-7.5.1.8	B limit /	
Acetone	PASS	5000 ppm	Permethrin	PASS	20.00 ppm	
Acetonitrile	PASS	410 ppm	Phosmet	PASS	0.20 ppm	
Benzene	PASS	0 ppm	Piperonylbutoxide	PASS	8.00 ppm	
Butane	PASS	5000 ppm	Prallethrin	PASS	0.40 ppm	
Chloroform	PASS	0 ppm	Propiconazole	PASS	20.00 ppm	Chl
Cyclohexane	PASS	0 ppm	Propoxur	PASS	0.00 ppm	
Ethanol	PASS	10000 ppm	Pyrethrin	PASS	1.00 ppm	
Heptane	PASS	5000 ppm	Pyridaben	PASS	3.00 ppm	
Hexane	PASS	290 ppm	Spinetoram	PASS	3.00 ppm	
Isopropyl alcohol	PASS	5000 ppm	Spinosad	PASS	3.00 ppm	
Methanol	PASS	3000 ppm	Spiromesifen	PASS	12.00 ppm	
Pentane	PASS	5000 ppm	Spirotetramat	PASS	13.00 ppm	
Propane	PASS	5000 ppm	Spiroxamine	PASS	0.00 ppm	
Toluene	PASS	890 ppm	Tebuconazole	PASS	2.00 ppm	
Xylenes	PASS	2170 ppm	Thiacloprid	PASS	0.10 ppm	
			Thiamethoxam	PASS	4.50 ppm	
			Trifloxystrobin	PASS	30.00 ppm	
			1 1/5/			

limit			
esticides	MSP-7.5.1.8	limit	Р
Abamectin	PASS	0.30 ppm	
Acephate	PASS	5.00 ppm	
Acequinocyl	PASS	4.00 ppm	
Acetamiprid	PASS	5.00 ppm	
Aldicarb		0.00 ppm	
Azoxystrobin	PASS	40.00	
Bifenazate	PASS	5.00 ppm	
Bifenthrin	PASS	0.50 ppm	
Boscalid	PASS	10.00	
Carbaryl	PASS	0.50 ppm	
Carbofuran	PASS	0.00 ppm	
Chloantraniliprole	PASS	40.00	
Chlorfenapyr	PASS	0.000 ppm	
Chlorpyrifos	PASS	0.00 ppm	
Clofentezine	PASS	0.50 ppm	
Coumaphos	PASS	0.00 ppm	
Cyfluthrin		1.00 ppm	
Cypermethrin	PASS	1.00 ppm	
Daminozide		0.00 ppm	
Dichlorvos	PASS	0.00 ppm	
Diazinon	PASS	0.20 ppm	
Dimethoate	PASS	0.00 ppm	
Etoxazole	PASS	1.50 ppm	
Fenoxycarb	PASS	0.00 ppm	
Fenpyroximate	PASS	2.00 ppm	

esticides MSP-7.5.1.8 limit 0.00 ppm **Fipronil** PASS Flonicamid **PASS** 2.00 ppm **PASS** 30.00 Fludioxonil **PASS** 2:00 ppm Hexythiazox Imazalil PASS 0.00 ppm Imidacloprid **PASS** 3.00 ppm 5.00 ppm **PASS** Malathion Metalaxyl PASS 15.00 7000 ppm Methiocarb **PASS** 0.10 ppm **PASS** Methomyl Methyl parathion **PASS** 0.00 ppm Mevinphos **PASS** 0.00 ppm 9.00 ppm **PASS** Myclobutanil Naled PASS 0.50 ppm 0.20 ppm Oxamyl **PASS PASS** 0.00 ppm Paclobutrazol Permethrin PASS 20.00

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

Stillwater Laboratories Inc. MT License L00001, 7, 8 6073 US93N Suite 5 Olney MT 59927 406-881-2019

3/2/2021 1:09 PM

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https://portal.a2la.org/scopepdf/4961-01.pdf

Justin M Johnston

Deputy Director

Printed



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

OTO900

N/A

Batch ID or Lot Number: Reported: Test: 21278A **Microbial** 10/11/21

Contaminants

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

Finished Product T000167878 10/8/21 N/A

Methods: Sampler ID: Status: Received: TM25 (qPCR)

TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

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
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

N/A

Free from visual mold, mildew, and foreign matter

Jackson Osaghae-Nosa 10/11/2021 12:25:00 PM

Brett Hudson 10/11/2021 4:07:00 PM

10/07/2021 @ 12:20 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

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

Examples: $10^2 = 100 CFU$

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





