# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: Certified Organic CBD Tincture - Mint

 PRODUCT STRENGTH:
 450 mg

 FILL LOT NUMBER:
 NA

 TINCTURE BATCH
 21154A

 BEST BY DATE:
 12/03/2022

 HEMP EXTRACT LOT
 C0209-002

### \*Click on the links to view third-party reports\*

#### Physical Atttributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	Characteristic - Olive and hemp, minty	PASS
Appearance	SOP-100	Golden to Amber oil in brown glass bottle with dropper	PASS
Primary Package Eval.	Primary Package Eval. SOP-132 Container clean and free of filth. Container caps tight and shrink bands intact		PASS
Secondary Package Eval.	SOP-132	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	SOP-111	450-562.5 mg CBD LOQ**: 10 PPM† (0.001%)		PASS
Potency - D9-THC	- D9-THC SOP-111 None Detected LOQ: 10 PPM (0.001%)		ND	PASS
Compliant Pesticide Panel	I SOP-III I for Tinctures Oregon Action limits I		ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOQ	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOQ	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	ND	PASS

<sup>\* \*</sup>Level of Quantitation, † Parts Per Million

Quality Certified Kayla Kolber 06/11/2021

Kayla Kolber Date

Quality Assurance Technician



certificate ID

1BJ67

#### C0209 002

sample ID 25846

THC‡ ND

cannabinoids

30 mL

CBD‡ 464.2mg terpenes ND

### **7USC1639 Certificate of Analysis**

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

## Stillwater Laboratories

infused

order 9806

analysis date 2/11/2021 12:21:52 PM

test tag sample wgt

Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample received in a client-labeled bottle, by commercial courier. Labeled 25846.



Potency per 30 mL	MSP-7.5.1.4	LOD LOQ (95%Cl k=2)
total CBD‡ total CBD (CBD+CBDa) tetrahydrocannabolic acid (THCa) Δ9-tetrahydrocannabinol (Δ9 THC) Δ8-tetrahydrocannabinol (Δ8 THC) tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa) cannabidiol (CBD) cannabidivarin (CBDv) cannabigerolic acid (CBGa) cannabigerol (CBG) cannabinol (CBN) cannabinol (CBN) cannabichromene (CBC)	464.2mg 464.2mg ND ND ND ND ND 464.2mg ND ND 33.3mg ND	1.64   4.92   ±16.65mg 1.64   4.92   ±16.65mg 1.67   5.01   ±5.01mg 1.57   4.70   ±4.70mg 2.10   6.31   ±5.24mg 1.75   5.24   ±5.24mg 1.44   4.33   ±4.33mg 1.65   4.96   ±16.68mg 1.65   4.94   ±4.94mg 1.48   4.43   ±4.43mg 0.47   1.40   ±2.24mg 0.90   2.71   ±2.71mg 1.64   4.92   ±4.92mg

 $\ddagger$  = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit , LOQ = quantitation limit

Microbial M	SP-7.5.1.1	10 limit	Metals	ISP-7.5.1.1	1/ Climit	Pesticides	MSP-7.5.1.	3 limit	Pesticides
			Arsenic	PASS	1500 ppb	Abamectin	PASS	0.30 ppm	/ ØF
			Cadmium	PASS	500 ppb	Acephate	PASS	5.00 ppm	Floni
			Lead	PASS	500 ppb	Acequinocyl	PASS	4.00 ppm	Fludi
Ochratoxin A	PASS	20 ppb	Mercury	<b>PASS</b>	300 ppb	Acetamiprid	PASS	5.00 ppm	Hexyth
Aflatoxin		20 ppb				Aldicarb	PASS	0.00 ppm	` / ( <u>)</u> In
0/0/201					0/0/	Azoxystrobin	PASS	40.00	Imidad
Solvents M	SP-7.5.1.7	limit	Pesticides MSP-7.5.1.8 limit			Bifenazate	PASS	5:00 ppm	Mal
Acetone	PASS	5000 ppm	Permethrin	PASS	20.00 ppm	Bifenthrin	PASS	0.50 ppm	Met
Acetonitrile	PASS	410 ppm	Phosmet	PASS	0.20 ppm	Boscalid	PASS	10.00	Meth
Benzene	PASS	0 ppm	Piperonylbutoxide	PASS	8.00 ppm	Carbaryl	PASS	0.50 ppm	Met
Butane	PASS	5000 ppm	Prallethrin	PASS	0.40 ppm	Carbofuran	PASS	0.00 ppm	Methyl par
Chloroform	PASS	0 ppm	Propiconazole	PASS	20.00 ppm	Chloantraniliprole	PASS	40.00	Mevi
Cyclohexane	PASS	0 ppm	Propoxur	PASS	0.00 ppm	Chlorfenapyr	PASS	0.00 ppm	
Ethanol	PASS	10000 ppm	Pyrethrin	PASS	1.00 ppm	Chlorpyrifos	PASS	0.00 ppm	
Heptane	PASS	5000 ppm	Pyridaben	PASS	3.00 ppm	Clofentezine	PASS	0.50 ppm	(X) O
Hexane	PASS	290 ppm	Spinetoram	PASS	3.00 ppm	Coumaphos		0.00 ppm	,
Isopropyl alcohol	<b>PASS</b>	5000 ppm	Spinosad	PASS	3.00 ppm	Cyfluthrin		1.00 ppm	
Methanol	PASS	3000 ppm	Spiromesifen	PASS	12.00 ppm	Cypermethrin		1.00 ppm	INSTRUME
Pentane	PASS	5000 ppm	Spirotetramat	<b>PASS</b>	13.00 ppm	Daminozide		0.00 ppm	potency: F
Propane	PASS	5000 ppm	Spiroxamine	<b>PASS</b>	0.00 ppm	Dichlorvos		0.00 ppm	terpenes: 0
Toluene	PASS	890 ppm	Tebuconazole	<b>PASS</b>	2.00 ppm	Diazinon		0.20 ppm	solvents: G
Xylenes	PASS	2170 ppm	Thiacloprid	<b>PASS</b>	0.10 ppm	Dimethoate		0.00 ppm	pesticides:
			Thiamethoxam	PASS	4.50 ppm	Etoxazole		1.50 ppm	mycotoxins microbial:
			Trifloxystrobin	PASS	30.00 ppm	Fenoxycarb		0.00 ppm	metals: ICF
						Fenpyroximate	PASS	2.00 ppm	

MSP-7.5.1.8 limit Fipronil PASS 0.00 ppm Flonicamid PASS 2.00 ppm **PASS** 30.00 Fludioxonil **PASS** 2:00 ppm Hexythiazox 0.00 ppm Imazalil **PASS** Imidacloprid **PASS** 3.00 ppm 5.00 ppm **PASS** Malathion Metalaxyl **PASS** 15.00 0.00 ppm Methiocarb PASS 0.10 ppm **PASS** Methomyl ethyl 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** Paclobutrazol 0.00 ppm 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

Kyle Larson, MSc (Biology) Deputy Director

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

4/26/2021 11:55 AM

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certificate ID

OTM450-21154A

21154A

rec'd 6/8/2021 12:23:26 PM

per

order 10963

This Product Has Been

**Tested and Complies** 

with 7USC1639o(1)

Stillwater Laboratories

**7USC1639 Certificate of Analysis** 



per

Mi	icrobial	MSP-7.5.1.10	limit	LOD	LOQ	error	result
	E.coli Salmonella sp.	ND ND	0CFU 0CFU			±0.1CFU ±0.1CFU	PASS PASS
	molds	ND	10000CFU	2	01601	+6 OCELL	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:





https://customer.a2la.org/index.cfm?event= directory.detail&labPID=423635B2-5128-4C 6F-871A-419DCF43B0D7

Stillwater Laboratories Inc. MT License L0001, L00007 6073 US93N Suite 5, Olney MT 59927 406-881-2019 INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated as: [cannabioid] = [cannabinoid]\_HPLC x volume\_diludon/fingly, ••• Decarboxyted cannabinoid concentration is calculated XXX\_lotal = 0.877 x XXXa + XXX ••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s,), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula  $\mathbf{s}_g^2 = \sum_i (\partial i/\partial i)^2 \mathbf{s}_i^2$  where i is the contributor to error. The 95% confidence range is calculated from: (concentration)  $\pm t_{\text{CL90}}$  x  $\mathbf{s}_g$ . Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable.  $\ddagger$  = decarbed

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