# **CERTIFICATE OF ANALYSIS**

**PRODUCT NAME:** Certified Organic CBD Tincture - Natural

 PRODUCT STRENGTH:
 450 mg

 FILL LOT NUMBER:
 B1014-001

 TINCTURE BATCH:
 20358A

 BEST BY DATE:
 06/23/2022

 HEMP EXTRACT LOT
 NA

# \*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	PASS
Appearance	SOP-100	Golden to Amber oil in brown glass bottle with dropper	PASS
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%)	459.1 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	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 Kei Horikawa 12/30/2020

Kei Horikawa Date

Quality Control Manager



certificate ID

OKR38

#### B1014-001

sample ID 24963 retention ID 24963

analysis: 10/22/2020 12:01:11 PM

total cannabinoids

467.9mg

per 30 mL

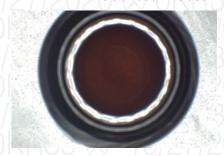
THC‡ ND CBD‡ 459.1mg

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

**7USC1639 Certificate of Analysis** 

Stillwater Laboratories

7USC1639 Infused



order 8689

received 10/22/2020 12:01:11 PM

test tag

sample wgt 15.0 g

Inspection MSP-7.5.1.2

DESCRIPTION: Oil sample (15.00g) received in a client-labeled bottle, by commercial courier. Labeled 24963.

Potency per 30 mL	MSP-7.5.1.4	LOD	LOQ	error (95%Cl k=2)	
tetrahydrocannabolic acid (THCa) Δ9-tetrahydrocannabinol (Δ9 THC) Δ8-tetrahydrocannabinol (Δ8 THC) tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa) cannabidiol (CBD) cannabidivarin (CBDv)	ND ND ND ND ND 459.1mg 1.9mg	0.17 0.16 0.22 0.18 0.15 0.17	1 0.51 1 0.48 1 0.65 1 0.54 1 0.44 1 0.51	1 ±0.51mg 1 ±0.48mg 1 ±0.65mg 1 ±0.54mg 1 ±0.44mg 1 ±8.23mg 1 ±0.54mg	
cannabigerolic acid (CBGa) cannabigerol (CBG) cannabinol (CBN) cannabichromene (CBC)	ND 6.9mg ND ND	0.18 0.09	1 0.55 1 0.28	l ±0.45mg l ±0.67mg l ±0.28mg l ±0.51mg	

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

# = decarbed NT = not tested NL = no limit, ND	= not detected, LOD = detection limit , L	OQ = quantita	tion 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	8 limit
	Arsenic PASS	1500 ppb	Daminozide	PASS	0.0 ppm	Piperonylbutoxide	PASS	8.0 ppm
	Cadmium PASS	500 ppb	Dichlorvos	PASS	0.0 ppm	Prallethrin	PASS	0.4 ppm
	Lead PASS	500 ppb	Diazinon	PASS	0.2 ppm	Propiconazole	PASS	20.0 ppm
Ochratoxin A PASS 20 ppb	Mercury PASS	300 ppb	Dimethoate	PASS	0.0 ppm	Propoxur	PASS	0.0 ppm
Aflatoxin PASS 20 ppb			Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
0/-//-0-0		10/4	Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents MSP-7.5.1.7 limit	Pesticides MSP-7.5.1	.8 limit	Fenpyroximate	PASS	2.0 ppm	Spinetoram	PASS	3.0 ppm
Acetone PASS 5000 ppm	Abamectin PASS	0.3 ppm	V Fipronil	PASS	0.0 ppm	Spinosad	PASS	3.0 ppm
Acetonitrile PASS 410 ppm	Acephate PASS	5.0 ppm	Flonicamid	PASS	2.0 ppm	Spiromesifen	PASS	12.0 ppm
Benzene PASS 0 ppm	Acequinocyl PASS	4.0 ppm	Fludioxonil	PASS	30.0 ppm	Spirotetramat	PASS	13.0 ppm
Butane PASS 5000 ppm	Acetamiprid PASS	5.0 ppm	Hexythiazox	PASS	2.0 ppm	Spiroxamine	PASS	0.0 ppm
Chloroform PASS 0 ppm	Aldicarb PASS	0.0 ppm	Imazalil	PASS	0.0 ppm	Tebuconazole	PASS	2.0 ppm
Cyclohexane PASS 0 ppm	Azoxystrobin PASS	40.0 ppm	Imidacloprid	PASS	3.0 ppm	Thiacloprid	PASS	0.1 ppm
Ethanol PASS 10000 ppr	n Bifenazate PASS	5.0 ppm	Malathion	PASS	5.0 ppm	Thiamethoxam	PASS	4.5 ppm
Heptane PASS 5000 ppm	Bifenthrin PASS	0.5 ppm	Metalaxyl		15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
Hexane PASS 290 ppm	Boscalid PASS	10.0 ppm	Methiocarb		0.0 ppm			
Isopropyl alcohol PASS 5000 ppm	Carbaryl PASS	0.5 ppm	Methomyl		0.1 ppm			
Methanol PASS 3000 ppm	Carbofuran PASS	0.0 ppm	Methyl parathion		0.0 ppm	INSTRUMENTS		
Pentane PASS 5000 ppm	Chloantraniliprole PASS	40.0 ppm	Mevinphos		0.0 ppm	potency: HPLC (LC	2030C-UV	1/20
Propane PASS 5000 ppm	Chlorfenapyr PASS		Myclobutanil		9.0 ppm	n terpenes: GCMS (QP2020/HS20)		20)
Toluene PASS 890 ppm	Chlorpyrifos PASS	0.0 ppm	Naled	PASS	0.5 ppm	solvents: GCMS (Q	P2020/HS2	0)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

0.0 ppm

1.0 ppm

1.0 ppm

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//2-//23—

Xylenes PASS

Justin M Johnston
Deputy Director

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2170 ppm

Clofentezine PASS 0.5 ppm

Coumaphos PASS

Cypermethrin PASS

Cyfluthrin PASS

10/27/2020 4:46 PM

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Oxamyl

Phosmet PASS

Paclobutrazol

Permethrin

**PASS** 

PASS

PASS



0.2 ppm

0.0 ppm

20.0 ppm

0.2 ppm





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

pesticides: LCMSMS (LC8060)

metals: ICPMS (ICPMS-2030)

mycotoxins: LCMSMS (LC8060)

microbial: qPCR (AriaMx) and plating







tincture



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

#### Lot# 20358A

Sample Handling test ID

type tincture lab ID 0MW21

sample wt order 9322 sample date 12/28/2020 unit weight

unit Methods

method equipment weights MSP-7.3.1.3 AUX120.1 potency MSP-7.5.1.5 LC-2030 terpenes MSP-7.5.1.7 QP2020/HS20 pesticides MSP-7.5.1.8 LC-8060 MSP-7.5.1.8 LC-8060 mvcotoxins MSP-7.5.1.1 AriaMx/Hardy microbial solvents MSP-7.5.1.6 QP2020/HS20 MSP-7.5.1.1 ICPMS2030 metals

Potency

per

estimated

Terpenes

estimated

estimated

estimated

not tested

terpenes not tested / not required

Solvents

MT limit

0MW21

LOQ

Pesticides (MT)

MT limit

0MW21

LOQ

Pesticides (other)

LOQ

pesticides not tested / not required

not tested / not required

Toxic Metals

0MW21

LOQ

metals not tested / not required

Microbial MT limit 0MW21 LOQ 0 CFU E. coli 10 CFU <10 CFU/g Salmonella sp. 10 CFU 0 CFU <10 CFU/g molds 10000 CFU 0 CFU <10k CFU/q

Comments

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid] $_{HPLC}$  x volume $_{dilution}/m_{dry}$ . Terpene concentration is calcuated from the equation: [terpene] = (terpene mass) $_{GCMS}$  /  $m_{dry}$ . ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX $_{CMS}$  concentration is calculated from the equation XXX $_{CMS}$  concentration is calculated from the equation XXX $_{CMS}$ XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula  $s_g^2$  =  $\sum (\partial f/\partial i)^2 s_i^2$  where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration)  $\pm$  t<sub>CL90</sub> x s<sub>g</sub>. Sampling error is not

Certified by:

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