CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic CBD Tincture - Natural

 PRODUCT STRENGTH:
 450 mg

 FILL LOT NUMBER:
 B1014-001

 TINCTURE BATCH:
 20365A

 BEST BY DATE:
 06/30/2022

 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		Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): <0.5 PPM		PASS

^{* *}Level of Quantitation, † Parts Per Million

Quality Certified

Kei Horikawa

Quality Control Manager

O1/06/2021

Date



certificate ID **0KR38**

B1014-001

sample ID 24963 retention ID 24963

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

total cannabinoids

467.9mg

per 30 mL

THC‡

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) cannabigerolic acid (CBGa) cannabigerol (CBG) cannabinol (CBN) cannabinol (CBN) cannabichromene (CBC)	ND ND ND ND ND 459.1mg 1.9mg ND 6.9mg ND ND	0.16 0.44 0.22 0.65 0.18 0.54 0.15 0.44 0.17 0.5 0.17 0.5 0.15 0.44 0.18 0.55 0.09 0.28	1 ±0.51mg 3 ±0.48mg 5 ±0.65mg 4 ±0.54mg 4 ±0.44mg 1 ±8.23mg 1 ±0.54mg 5 ±0.45mg 5 ±0.45mg 3 ±0.28mg 1 ±0.28mg 1 ±0.51mg	

5000 ppm

890 ppm

2170 ppm

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

<i>J</i> - 017 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	·····,110/	277202		9-9011						
Microbial MSP-7.5.1.10	limit	Metals	SP-7.5.1.1	1 limit	Pesticides	MSP-7.5.1.8	8 limit	Pesticides	MSP-7.5.1.8	3 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	dqq (Mercury	PASS	300 ppb	Dimethoate	PASS	0.0 ppm	Propoxur	PASS	0.0 ppm
) ppb	KH38X			Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
0/-//					Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents MSP-7.5.1.7	limit	Pesticides	ISP-7.5.1.8	3 limit	Fenpyroximate	PASS	2.0 ppm	Spinetoram	PASS	3.0 ppm
Acetone PASS 50	000 ppm	Abamectin	PASS	0.3 ppm	Fipronil	PASS	0.0 ppm	Spinosad	PASS	3.0 ppm
	0 ppm	Acephate	PASS	5.0 ppm	Flonicamid	PASS	2.0 ppm	Spiromesifen	PASS	12.0 ppm
Benzene PASS 0 p	ppm	Acequinocyl	PASS	4.0 ppm	Fludioxonil	PASS	30.0 ppm	Spirotetramat	PASS	13.0 ppm
Butane PASS 50	000 ppm	Acetamiprid		5.0 ppm	Hexythiazox	PASS	2.0 ppm	Spiroxamine	PASS	0.0 ppm
Chloroform PASS 0 p	ppm	Aldicarb	PASS	0.0 ppm	lmazalil	PASS	0.0 ppm	Tebuconazole	PASS	2.0 ppm
Cyclohexane PASS 0 p	ppm	Azoxystrobin	PASS	40.0 ppm	Imidacloprid	PASS	3.0 ppm	Thiacloprid	PASS	0.1 ppm
Ethanol PASS 10	0000 ppm	Bifenazate		5.0 ppm	Malathion	PASS	5.0 ppm	Thiamethoxam	PASS	4.5 ppm
Heptane PASS 50	000 ppm	Bifenthrin	PASS	0.5 ppm	Metalaxyl	PASS	15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
	90 ppm	Boscalid	PASS	10.0 ppm	Methiocarb	PASS	0.0 ppm			
	000 ppm	Carbaryl	PASS	0.5 ppm	Methomyl	PASS	0.1 ppm			
	000 ppm	Carbofuran		0.0 ppm	Methyl parathion	PASS	0.0 ppm	INSTRUMENTS		
Pentane PASS 50	000 ppm	Chloantraniliprole	PASS	40.0 ppm	Mevinphos	PASS	0.0 ppm	potency: HPLC (LC2030C-UV)		7/90
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SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

0.0 ppm

0.0 ppm

0.5 ppm

0.0 ppm

1.0 ppm

1.0 ppm

Certified by

Propane PASS

Toluene PASS

Xylenes PASS

Justin M Johnston **Deputy Director**

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

Chlorfenapyr PASS

Chlorpyrifos PASS

Clofentezine PASS

Coumaphos PASS

Cypermethrin PASS

Cyfluthrin PASS

10/27/2020 4:46 PM

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Myclobutanil PASS

Phosmet PASS

PASS

PASS

PASS

PASS

Naled

Oxamyl

Paclobutrazol

Permethrin



9.0 ppm

0.5 ppm

0.2 ppm

0.0 ppm

20.0 ppm

0.2 ppm





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

terpenes: GCMS (QP2020/HS20)

solvents: GCMS (QP2020/HS20)

pesticides: LCMSMS (LC8060)

metals: ICPMS (ICPMS-2030)

mycotoxins: LCMSMS (LC8060)

microbial: qPCR (AriaMx) and plating





tincture





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

Sample Handling

test ID type tincture lab ID 1AB109 unit

sample wt order **9392** sample date 1/5/2021

unit weight

method

Methods

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

1AB109

LOQ

Pesticides (MT)

MT limit

1AB109

LOQ

Pesticides (other)

1AB109

LOQ

pesticides not tested / not required

not tested / not required

Toxic Metals

1AB109

metals not tested / not required

Microbial MT limit 1AB109 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/cola| = 0.877 x 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_{CL90} x s_g. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology) Deputy Director 6073 US93N, Olney MT 59927 406-881-2019 rdb@stwlabs.com