

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Certified Organic CBD Tincture - Natural  
**PRODUCT STRENGTH:** 450 mg  
**FILL LOT NUMBER:** B1103-001  
**TINCTURE BATCH:** 21019A  
**BEST BY DATE:** 07/19/2022  
**HEMP EXTRACT LOT** NA

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

## Physical Attributes

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
<b>Potency</b> - Total CBD	SOP-111	450-562.5 mg CBD LOQ**: 10 PPM† (0.001%)	<b>492 mg</b>	PASS
<b>Potency</b> - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<b>ND</b>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	<b>ND</b>	PASS
<b>Microbial</b> - Stec E.Coli	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial</b> - Salmonella	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial</b> - Yeast and Mold	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<b>ND</b>	PASS

\* \*\*Level of Quantitation, † Parts Per Million

Quality Certified

*Kei Horikawa*  
 Kei Horikawa  
 Quality Control Manager

02/02/2021

Date



total cannabinoids	$\Delta^9$ -THC	THCa	total THC
<b>17 mg</b>	0.00 mg	0.00 mg	0.00 mg
per	CBD	CBDa	total CBD
<b>mL</b>	16.4 mg	0.00 mg	16.4 mg

21019A

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



Stillwater  
Laboratories

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

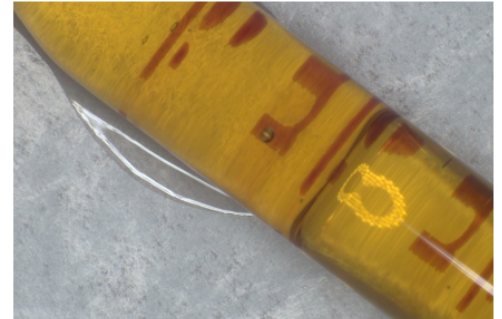
## Sample Handling

test ID <b>9690.1</b>	sample wt
type tincture	order <b>9690</b>
lab ID <b>1BA29</b>	sample date 2/1/2021
unit mL	unit weight <b>0.9 g</b>

## 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
mycotoxins	MSP-7.5.1.8 LC-8060
microbial	MSP-7.5.1.1 AriaMx/Hardy
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

## tincture



Potency	per mL	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.00 mg	± 0.02 mg						
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	0%	0.00 mg	± 0.02 mg						
$\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ THC)	0%	0.00 mg	± 0.02 mg						
tetrahydrocannabivarin (THCv)	0%	0.00 mg	± 0.02 mg						
cannabidiolic acid (CBDa)	0%	0.00 mg	± 0.02 mg						
cannabidiol (CBD)	1.79%	16.4 mg	± 0.10 mg						
cannabidivarin (CBDv)	0%	0.00 mg	± 0.02 mg						
cannabigerolic acid (CBGa)	0%	0.00 mg	± 0.02 mg						
cannabigerol (CBG)	.03%	0.27 mg	± 0.02 mg						
cannabinol (CBN)	0%	0.00 mg	± 0.02 mg						
cannabichromene (CBC)	0%	0.00 mg	± 0.02 mg						

terpenes  
not tested / not required

Solvents	MT limit	1BA29	LOQ	Pesticides (MT)	MT limit	1BA29	LOQ	Pesticides (other)	1BA29	LOQ
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pesticides  
not tested / not required

not tested /  
not required

Toxic Metals	MT limit	1BA29	LOQ
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metals  
not tested / not required

Microbial	MT limit	1BA29	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g

## Comments

\* All testing was completed onsite at 6073 US93N, Olney MT \*\* Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. \*\*\* Decarboxylated cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + 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<sub>y</sub><sup>2</sup> = Σ(∂f/∂i)<sup>2</sup>s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x s<sub>y</sub>. Sampling error is not

Certified by:

Justin M Johnston  
Deputy Director  
6073 US93N, Olney MT 59927  
406-881-2019 rdb@stwlabs.com



B1103-001

sample ID 25077

## 7USC1639 Certificate of Analysis

certificate ID  
0LC13total  
cannabinoids **480.2mg** per 30mL  
THC‡ ND CBD‡ 471.7mgThis Product  
Has Been  
Tested and  
Complies with  
7USC1639o(1)Stillwater  
Laboratories

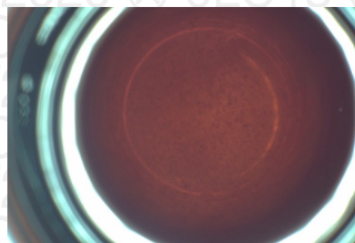
order 8817

analysis date 11/4/2020 12:11:44 PM

test tag

sample wgt 27.8 g

7USC1639 Infused



## Inspection MSP-7.5.1.2

DESCRIPTION: Oil sample (27.80g) received in a client-labeled bottle, by commercial courier. Labeled 25077.

## Potency per 30mL

	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
tetrahydrocannabinolic acid (THCa)	ND	0.20	0.61	±0.61mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.19	0.57	±0.57mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.25	0.76	±0.76mg
tetrahydrocannabivarin (THCv)	ND	0.21	0.63	±0.63mg
cannabidiolic acid (CBDA)	ND	0.17	0.52	±0.52mg
cannabidiol (CBD)	471.7mg	0.20	0.60	±8.62mg
cannabidivarin (CBDv)	ND	0.20	0.60	±0.60mg
cannabigerolic acid (CBGa)	ND	0.18	0.54	±0.54mg
cannabigerol (CBG)	8.5mg	0.22	0.65	±0.80mg
cannabinol (CBN)	ND	0.11	0.33	±0.33mg
cannabichromene (CBC)	ND	0.20	0.60	±0.60mg

‡ = 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	Daminozide	PASS	0.0 ppm	Piperonylbutoxide	PASS	8.0 ppm
Salmonella sp.	PASS	0CFU	Cadmium	PASS	500 ppb	Dichlorvos	PASS	0.0 ppm	Prallethrin	PASS	0.4 ppm
molds	PASS	10000CFU	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				Etozazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
Solvents	MSP-7.5.1.7	limit	Pesticides	MSP-7.5.1.8	limit	Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Acetone	PASS	5000 ppm	Abamectin	PASS	0.3 ppm	Fenpyroximate	PASS	2.0 ppm	Spinetoram	PASS	3.0 ppm
Acetonitrile	PASS	410 ppm	Acephate	PASS	5.0 ppm	Fipronil	PASS	0.0 ppm	Spinosad	PASS	3.0 ppm
Benzene	PASS	0 ppm	Acequinocyl	PASS	4.0 ppm	Flonicamid	PASS	2.0 ppm	Spiromesifen	PASS	12.0 ppm
Butane	PASS	5000 ppm	Acetamiprid	PASS	5.0 ppm	Fludioxonil	PASS	30.0 ppm	Spirotetramat	PASS	13.0 ppm
Chloroform	PASS	0 ppm	Aldicarb	PASS	0.4 ppm	Hexythiazox	PASS	2.0 ppm	Spiroxamine	PASS	0.0 ppm
Cyclohexane	PASS	0 ppm	Azoxystrobin	PASS	40.0 ppm	Imazalil	PASS	0.0 ppm	Tebuconazole	PASS	2.0 ppm
Ethanol	PASS	10000 ppm	Bifenazate	PASS	5.0 ppm	Imidacloprid	PASS	3.0 ppm	Thiacloprid	PASS	0.1 ppm
Heptane	PASS	5000 ppm	Bifenthrin	PASS	0.5 ppm	Malathion	PASS	5.0 ppm	Thiamethoxam	PASS	4.5 ppm
Hexane	PASS	290 ppm	Boscalid	PASS	10.0 ppm	Metaxyl	PASS	15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
Isopropyl alcohol	PASS	5000 ppm	Carbaryl	PASS	0.5 ppm	Methiocarb	PASS	0.0 ppm			
Methanol	PASS	3000 ppm	Carbofuran	PASS	0.0 ppm	Methomyl	PASS	0.1 ppm			
Pentane	PASS	5000 ppm	Chloanthraniliprole	PASS	40.0 ppm	Methyl parathion	PASS	0.0 ppm			
Propane	PASS	5000 ppm	Chlorfenapyr	PASS	0.0 ppm	Mevinphos	PASS	0.0 ppm			
Toluene	PASS	890 ppm	Chlorpyrifos	PASS	0.0 ppm	Myclobutanil	PASS	9.0 ppm			
Xylenes	PASS	2170 ppm	Clofentezine	PASS	0.5 ppm	Naled	PASS	0.5 ppm			
			Coumaphos	PASS	0.0 ppm	Oxamyl	PASS	0.2 ppm			
			Cyfluthrin	PASS	1.0 ppm	Paclobutrazol	PASS	0.0 ppm			
			Cypermethrin	PASS	1.0 ppm	Permethrin	PASS	20.0 ppm			
						Phosmet	PASS	0.2 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

Stillwater Laboratories Inc.  
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 6073 US93N Suite 5  
 Olney MT 59927  
 406-881-2019

Printed  
 11/7/2020 2:04 PM

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