CERTIFICATE OF ANALYSIS



PRODUCT NAME:
Certified Organic CBD Tincture - Minty
PRODUCT STRENGTH:
450 mg

FILL LOT NUMBER:
B1103-001

TINCTURE BATCH
21021A

BEST BY DATE:
07/21/2022

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, minty	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%)	471.7 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	6 Yck '@CE	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	6Yck @CE	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	6Yck @CE	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

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

Quality Certified Kei Horikawa 02/02/2021

Kei Horikawa Date

Quality Control Manager



certificate ID

0LC13

B1103-001

sample ID 25077

total cannabinoids

480.2mg

per 30mL

ND THC‡

CBD‡ 471.7mg

7USC1639 Certificate of Analysis

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

Stillwater Laboratories

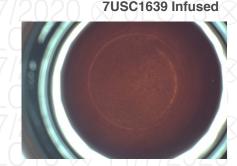
order 8817

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

test tag sample wgt 27.8 g

Inspection MSP-7.5.1.2

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



5000 ppm

890 ppm

2170 ppm

‡ = 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-7.5.1.1	1 limit	Pesticides	MSP-7.5.1.8	3 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	I (;;;;;;;; (x) ;;;		Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
		1////	Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents MSP-7.5.1.7 limit	Pesticides MSP-7.5.1.8	3 limit	Fenpyroximate	PASS	2.0 ppm	Spinetoram	PASS	3.0 ppm
Acetone PASS 5000 ppm	Abamectin PASS	0.3 ppm	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	0.4 ppm	lmazalil	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 ppm	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	PASS	15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
Hexane PASS 290 ppm	Boscalid PASS	10.0 ppm	Methiocarb	PASS	0.0 ppm			
Isopropyl alcohol PASS 5000 ppm	Carbaryl PASS	0.5 ppm	Methomyl	PASS	0.1 ppm			
Methanol PASS 3000 ppm	Carbofuran PASS	0.0 ppm	Methyl parathion	PASS	0.0 ppm	INSTRUMENTS		
Pentane PASS 5000 ppm	Chloantraniliprole PASS	40.0 ppm	Mevinphos	PASS	0.0 ppm	potency: HPLC (LC	2030C-UV	

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

Kyle Larson, MSc (Biology) Deputy Director

Propane PASS

Toluene PASS

Xylenes PASS

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Chlorfenapyr PASS

Chlorpyrifos PASS

Clofentezine PASS

Coumaphos PASS

Cypermethrin PASS

Cyfluthrin PASS

11/7/2020 2:04 PM

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Myclobutanil

Paclobutrazol

Permethrin

Naled

Phosmet PASS

Oxamyl



9.0 ppm

0.5 ppm

0.2 ppm

0.0 ppm

0.2 ppm

20.0 ppm

PASS

PASS

PASS

PASS

PASS





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)

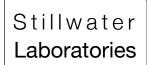
microbial: qPCR (AriaMx) and plating

Certificate of Analysis









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

21021A

Sample Handling

test ID sample date 1/28/21 12:35 PM order 9661 labID 1AY03 weight

source

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-7.5.1.11	ICPMS2030

tincture



Potency & estimated error Terpenes & estimated error & estimated error & estimated error & estimated error

potency not tested terpenes not tested / not required

Solvents MT limit 1AY03 LOQ Pesticides (MT) MT limit 1AY03 LOQ Pesticides (other) 1AY03 LOQ

pesticides not tested / not required not tested / not required

Toxic Metals MT limit 1AY03 LOG

metals not tested / not required

 Microbial
 MT limit
 1AY03
 LOQ

 E. coli
 10 CFU
 0 CFU
 <10 CFU/g</td>

 Salmonella sp.
 10 CFU
 0 CFU
 <10 CFU/g</td>

 molds
 10000 CFU
 0 CFU
 <10k CFU/g</td>

Comments

Certified by:

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

Printed 1/30/2021 11:12 AM

[•] All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = [cannabinoid]_HPLC x volume_dilution/Mdy. Terpene concentration is calcuated from the equation: [terpene] = (terpene mass)_GCMS / mdy. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX_total = 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 $s_{\rm g}^2 = \sum (\partial f/\partial i)^2 s_{\rm l}^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) \pm to the total contributor of the standard standard from the equation: (concentration)