CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Certified Organic CBD Tincture - Orange
PRODUCT STRENGTH:	450 mg
FILL LOT NUMBER:	201111A
TINCTURE BATCH	201117H
BEST BY DATE:	05/23/2022
HEMP EXTRACT LOT*:	**B1019-001**

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	Coconut and hemp, orange	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%)	**470.7 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	**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

* *Level of Quantitation, † Parts Per Million

Quality Certified *Kei Horikawa* 12/04/2020

Kei Horikawa
Quality Control Manager

Date

ORG MCT 450 Orange

Certificate of Analysis

total cannabinoids	Δ9-THC	THCa	total THC
16 mg per mL	0.00 mg	0.00 mg	0.00 mg
	CBD	CBDa	total CBD
	15.69 mg	0.00 mg	15.69 mg

Lot# 201111A

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

ISO/IEC 17025:2017
ACCREDITED
Certificate #4961.01
https://portal.a2la.org/scopepdf/4961-01.pdf

Stillwater Laboratories

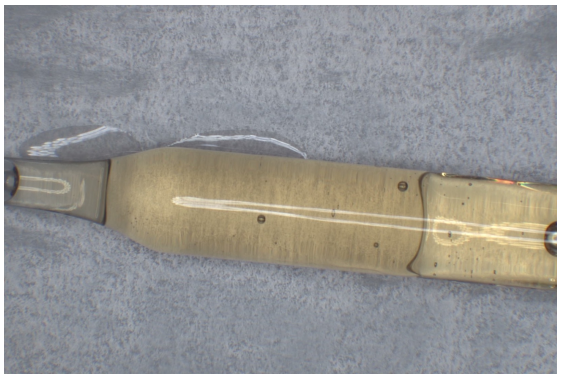
Sample Handling

test ID		sample wt	
type	concentrate	order	**8900**
lab ID	**0LJ62**	sample date	11/12/2020
unit	mL	unit weight	**0.9 g**

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

concentrate



Potency

per mL			estimated error
tetrahydrocannabolic acid (THCa)	0%	0.00 mg	± 0.02 mg
Δ^9-tetrahydrocannabinol (Δ^9 THC)	0%	0.00 mg	± 0.02 mg
Δ^8-tetrahydrocannabinol (Δ^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)	1.66%	15.69 mg	± 0.03 mg
cannabidivarin (CBDv)	0%	0.00 mg	± 0.02 mg
cannabigerolic acid (CBGa)	0%	0.00 mg	± 0.02 mg
cannabigerol (CBG)	.03%	0.30 mg	± 0.02 mg
cannabinol (CBN)	.01%	0.14 mg	± 0.02 mg
cannabichromene (CBC)	0%	0.00 mg	± 0.02 mg

Terpenes

%	estimated error	%	estimated error	%	estimated error

terpenes
not tested / not required

Solvents

MT limit	0LJ62	LOQ

Pesticides (MT)

MT limit	0LJ62	LOQ

pesticides
not tested / not required

Pesticides (other)

0LJ62	LOQ

not tested /
not required

Toxic Metals

MT limit	0LJ62	LOQ

metals
not tested / not required

Microbial

MT limit	0LJ62	LOQ

microbial not tested

Comments

Density = .9451g/mL

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = $[\text{cannabinoid}]_{HPLC} \times \text{volume}_{dilution}/m_{dry}$. Terpene concentration is calcuated from the equation: [terpene] = $(\text{terpene mass})_{GCMS} / m_{dry}$. ••• Decarboxyted cannabinoid concentration is calculated from the equation $XXX_{total} = 0.877 \times XXXa + XXX$ •••• 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) $\pm t_{CL90} \times s_g$. Sampling error is not

Certified by:

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

B1019-001

7USC1639 Certificate of Analysis

sample ID 24999
retention ID 24999

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

certificate ID
0KR44

total cannabinoids **484.4mg** per 30 mL

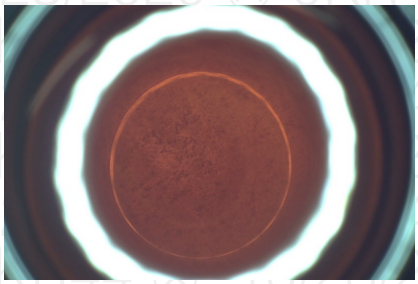
THC‡ ND CBD‡ 471.3mg

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

Stillwater Laboratories

order 8689
received **10/22/2020 12:01:11 PM**
test tag
sample wgt 15.0 g

7USC1639 Infused



Inspection MSP-7.5.1.2

DESCRIPTION: Oil sample (15.00g) received in a client-labeled bottle, by commercial courier. Labeled 24999.

Potency per 30 mL

	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
tetrahydrocannabolic acid (THCa)	ND	0.16	0.47	±0.47mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.15	0.44	±0.44mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.20	0.59	±0.59mg
tetrahydrocannabivarin (THCv)	ND	0.16	0.49	±0.49mg
cannabidiolic acid (CBDa)	ND	0.14	0.41	±0.41mg
cannabidiol (CBD)	471.3mg	0.16	0.47	±8.36mg
cannabidivarin (CBDv)	2.5mg	0.16	0.47	±0.51mg
cannabigerolic acid (CBGa)	ND	0.14	0.42	±0.42mg
cannabigerol (CBG)	10.6mg	0.17	0.51	±0.68mg
cannabinol (CBN)	ND	0.09	0.26	±0.26mg
cannabichromene (CBC)	ND	0.15	0.46	±0.46mg

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

Microbial MSP-7.5.1.10

		limit
Ochratoxin A	PASS	20 ppb
Aflatoxin	PASS	20 ppb

Metals MSP-7.5.1.11

		limit
Arsenic	PASS	1500 ppb
Cadmium	PASS	500 ppb
Lead	PASS	500 ppb
Mercury	PASS	300 ppb

Solvents MSP-7.5.1.7

		limit
Acetone	PASS	5000 ppm
Acetonitrile	PASS	410 ppm
Benzene	PASS	0 ppm
Butane	PASS	5000 ppm
Chloroform	PASS	0 ppm
Cyclohexane	PASS	0 ppm
Ethanol	PASS	10000 ppm
Heptane	PASS	5000 ppm
Hexane	PASS	290 ppm
Isopropyl alcohol	PASS	5000 ppm
Methanol	PASS	3000 ppm
Pentane	PASS	5000 ppm
Propane	PASS	5000 ppm
Toluene	PASS	890 ppm
Xylenes	PASS	2170 ppm

Pesticides MSP-7.5.1.8

		limit
Abamectin	PASS	0.3 ppm
Acephate	PASS	5.0 ppm
Acequinocyl	PASS	4.0 ppm
Acetamiprid	PASS	5.0 ppm
Aldicarb	PASS	0.0 ppm
Azoxystrobin	PASS	40.0 ppm
Bifenazate	PASS	5.0 ppm
Bifenthrin	PASS	0.5 ppm
Boscalid	PASS	10.0 ppm
Carbaryl	PASS	0.5 ppm
Carbofuran	PASS	0.0 ppm
Chloantraniliprole	PASS	40.0 ppm
Chlorfenapyr	PASS	0.0 ppm
Chlorpyrifos	PASS	0.0 ppm
Clofentezine	PASS	0.5 ppm
Coumaphos	PASS	0.0 ppm
Cyfluthrin	PASS	1.0 ppm
Cypermethrin	PASS	1.0 ppm

Pesticides MSP-7.5.1.8

		limit
Daminozide	PASS	0.0 ppm
Dichlorvos	PASS	0.0 ppm
Diazinon	PASS	0.2 ppm
Dimethoate	PASS	0.0 ppm
Etoxazole	PASS	1.5 ppm
Fenoxycarb	PASS	0.0 ppm
Fenpyroximate	PASS	2.0 ppm
Fipronil	PASS	0.0 ppm
Flonicamid	PASS	2.0 ppm
Fludioxonil	PASS	30.0 ppm
Hexythiazox	PASS	2.0 ppm
Imazalil	PASS	0.0 ppm
Imidacloprid	PASS	3.0 ppm
Malathion	PASS	5.0 ppm
Metalaxyl	PASS	15.0 ppm
Methiocarb	PASS	0.0 ppm
Methomyl	PASS	0.1 ppm
Methyl parathion	PASS	0.0 ppm
Mevinphos	PASS	0.0 ppm
Myclobutanil	PASS	9.0 ppm
Naled	PASS	0.5 ppm
Oxamyl	PASS	0.2 ppm
Paclobutrazol	PASS	0.0 ppm
Permethrin	PASS	20.0 ppm
Phosmet	PASS	0.2 ppm

Pesticides MSP-7.5.1.8

		limit
Piperonylbutoxide	PASS	8.0 ppm
Prallethrin	PASS	0.4 ppm
Propiconazole	PASS	20.0 ppm
Propoxur	PASS	0.0 ppm
Pyrethrin	PASS	1.0 ppm
Pyridaben	PASS	3.0 ppm
Spinetoram	PASS	3.0 ppm
Spinosad	PASS	3.0 ppm
Spiromesifen	PASS	12.0 ppm
Spirotetramat	PASS	13.0 ppm
Spiroxamine	PASS	0.0 ppm
Tebuconazole	PASS	2.0 ppm
Thiacloprid	PASS	0.1 ppm
Thiamethoxam	PASS	4.5 ppm
Trifloxystrobin	PASS	30.0 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:

Justin M Johnston
Deputy Director

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

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10/27/2020 4:45 PM

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HEMP INDUSTRIES ASSOCIATION Member

ASA PFC Laboratory

ISO/IEC 17025:2017
ACCREDITED
Certificate #4961.01
https://portal.a2la.org/scopepdf/4961-01.pdf

Certificate of Analysis

Sample Information

CTLA ID: 23719
Date Received: 11/24/2020
Sample Name: ORG BS MCT 450 Orange Packaging
Lot Number: 201117H
Customer:

Analysis	Method	MDL	Specification	Result	Units
Rapid Complete Micro					
Total Plate Count	USP <2021>	100	Report	<100	cfu/g
Total Coliforms	BAM CH.4	10	Report	<10	cfu/g
E. coli	USP <2022>		Report	Negative	
Salmonella	USP <2022>		Report	Negative	
Staphylococcus aureus	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 997.02	10	Report	<10	cfu/g

11/30/2020
DATE

Quality Manager

Specifications provided by the Customer. Results with an asterisk (*) denote Specifications should be reviewed by the Customer. This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL = Method Detection Limit.