

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic Joy Organics CBD Tincture - Orange

PRODUCT STRENGTH:
FILL LOT NUMBER:
TINCTURE BATCH

201111C 201117J 05/23/2022

BEST BY DATE: HEMP EXTRACT LOT

B1021-001

### \*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	Characteristic -coconut and hemp, orange	PASS
Appearance	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	1350-1687.5 mg CBD LOQ**: 10 PPM† (0.001%)	1379.4 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 Kei Horikawa

12/04/2020

Date

Quality Control Manager



lab ID **0LJ64** 

total cannabinoids

47 mg per mL

THCa Δ9-ΤΗС 0.00 mg 0.00 mg CBD CBDa

45.98 mg

total THC 0.00 mg total CBD 0.00 mg 45.98 mg

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







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

#### Lot# 201111C

Sample Handling test ID sample wt order **8900** type concentrate

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	mL		estimated error	Terpenes	%	estimated error		%	estimated error	9/		estimate error
tetrahydrocannabolic acid (THCa)	0%	0.00 mg	± 0.02 mg									
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	0%	0.00 mg										
$\Delta^{8}$ -tetrahydrocannabinol ( $\Delta^{8}$ THC)	0%	0.00 mg	± 0.02 mg									
tetrahydrocannabivarin (THCv)	0%	0.00 mg	± 0.02 mg	tern	enes							
cannabidiolic acid (CBDa)	0%	0.00 mg	± 0.02 mg				_I					
cannabidiol (CBD)	4.86%	45.98 mg	± 0.04 mg	not	tested /	not required	Ol .					
cannabidivarin (CBDv)	0%	0.00 mg	± 0.02 mg									
cannabigerolic acid (CBGa)	0%	0.00 mg	± 0.02 mg									
cannabigerol (CBG)	.06%	0.59 mg	± 0.02 mg									
cannabinol (CBN)	0%	0.03 mg	± 0.02 mg									
cannabichromene (CBC)	0%	0.00 mg	± 0.02 mg									
Solvents MT limit	0LJ64	LOQ	Pe	esticides (MT)	MT limit	OLJ64 L	_OQ	Pestic	cides (other)	0LJ64	LO	Q

pesticides not tested / not required

not tested / not required

Toxic Metals

metals not tested / not required Microbial

MT limit

microbial not tested

0LJ64

LOQ

Comments

Density = .9451g/mL

Certified by:

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

• 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

LOQ



certificate ID **0KR48** 

#### B1021-001

sample ID 25013 retention ID 25013

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

total cannabinoids

1460.2mg

per 30 mL

THC‡

CBD‡ 1428.5m

**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 25013.

Potency per 30 mL	MSP-7.5.1.4	LOD LOQ (95%Cl k=2)
tetrahydrocannabolic acid (THCa) Δ9-tetrahydrocannabinol (Δ9 THC) Δ8-tetrahydrocannabinol (Δ8 THC) tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa) cannabidiolic (CBD) cannabidivarin (CBDv) cannabigerolic acid (CBGa) cannabigerol (CBG) cannabinol (CBN)	MSP-7.5.1.4  ND ND ND ND ND 1428.5mg 9.2mg ND 22.5mg ND	0.15   0.44   ±0.44mg 0.14   0.41   ±0.41mg 0.18   0.55   ±0.55mg 0.15   0.46   ±0.46mg 0.13   0.38   ±0.38mg 0.15   0.44   ±24.27mg 0.14   0.43   ±0.59mg 0.13   0.39   ±0.39mg 0.16   0.47   ±0.85mg 0.08   0.24   ±0.24mg
cannabichromene (CBC)	ND4	0.14   0.43   ±0.43mg

 $\ddagger$  = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit , LOQ = quantitation limit

Microbial M	SP-7.5.1.	10 limit	Metals M	ISP-7.5.1.1	1 limit	Pesticides	MSP-7.5.1.8	3 limit	Pesticides	MSP-7.5.1.	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		/\ /\ /\				Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
0/20/20					0/2	Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents	SP-7.5.1.7	7 limit	Pesticides	/ISP-7.5.1.	8 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		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 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		3000 ppm	Carbofuran		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	6/9
Propane		5000 ppm	Chlorfenapyr	PASS	0.0 ppm	Myclobutanil	PASS	9.0 ppm	terpenes: GCMS (Q		
		000				Minimum Minimum	D 4 0 0	0 E nnm			

Cyfluthrin PASS Permethrin PASS 20.0 ppm 1.0 ppm Phosmet PASS 0.2 ppm Cypermethrin PASS 1.0 ppm

Clofentezine PASS 0.5 ppm

Chlorpyrifos PASS

Coumaphos PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

0.0 ppm

0.0 ppm

Certified by

Toluene PASS

Xylenes PASS

890 ppm

2170 ppm

Justin M Johnston Deputy Director

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

10/27/2020 4:45 PM

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Naled

Oxamyl

Paclobutrazol

PASS

**PASS** 

PASS



0.5 ppm

0.2 ppm

0.0 ppm





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

solvents: GCMS (QP2020/HS20)

pesticides: LCMSMS (LC8060)

metals: ICPMS (ICPMS-2030)

mycotoxins: LCMSMS (LC8060)

microbial: qPCR (AriaMx) and plating



# **Certificate of Analysis**

## **Sample Information**

CTLA ID: 23721

Date Received: 11/25/2020

Sample Name: ORG BS MCT 1350 Orange Packaging

Lot Number: 201117J

**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.