

CERTIFICATE OF ANALYSIS

PRODUCT NAME:
Certified Organic Joy Organics CBD Tincture - Orange
450 mg

FILL LOT NUMBER:
NA

TINCTURE BATCH
21047A

BEST BY DATE:
08/16/2022

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%)	471.3 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

Kei Horikawa

03/01/2021

Date

Quality Control Manager



certificate ID **0KR44**

B1019-001

sample ID 24999 retention ID 24999

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

total cannabinoids

484.4mg

per 30 mL

THC‡

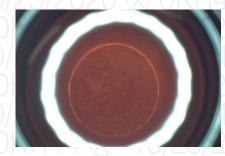
CBD‡ 471.3mg

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 24999.

Potency per 30 mL	MSP-7.5.1.4	LOD	LOQ	error (95%Cl k=2)	
tetrahydrocannabolic acid (THC Δ9-tetrahydrocannabinol (Δ9 TH Δ8-tetrahydrocannabinol (Δ8 TH tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa) cannabidiolic (CBD) cannabidivarin (CBDv) cannabigerolic acid (CBGa) cannabigerolic (CBG)	a) ND (C) ND (D) ND ND ND 471.3mg 2.5mg ND 10.6mg	0.16 0.15 0.20 0.16 0.14 0.16 0.16 0.14	0.47 0.44 0.59 0.49 0.41 0.47 0.47 0.42 0.51	±0.47mg ±0.44mg ±0.59mg ±0.49mg ±0.41mg ±8.36mg ±0.51mg ±0.42mg ±0.68mg	
cannabinol (CBN) cannabichromene (CBC)	ND ND			l ±0.26mg l ±0.46mg	

‡:

‡ = decarbed NT = not to	ested NL =	no limit, ND = no	ot detected, LOD = detection	on limit , LO	OQ = quantitati	on limit						
Microbial N	1SP-7.5.1.1	0 limit	Metals / M	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	
				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				Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm	
			(D 01 1 1 0 0 0)	<i>y</i>		Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm	
Solvents	ISP-7.5.1.7	limit	Pesticides	ISP-7.5.1.	B 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	0.0 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		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		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 (LC2030C-UV)			
Propane	PASS	5000 ppm	Chlorfenapyr		0.0 ppm	Myclobutanil	PASS	9.0 ppm				
Toluene	PASS	890 ppm	Chlorpyrifos	PASS	0.0 ppm	Naled	PASS	0.5 ppm	solvents: GCMS (QF		0)	

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

1.0 ppm

1.0 ppm

Certified by

Xylenes PASS

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

Clofentezine PASS 0.5 ppm

Coumaphos PASS 0.0 ppm

Cyfluthrin PASS

Cypermethrin PASS

10/27/2020 4:45 PM

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Oxamyl

Phosmet PASS

Paclobutrazol

Permethrin

PASS

PASS

PASS



0.2 ppm

0.0 ppm

20.0 ppm

0.2 ppm





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

pesticides: LCMSMS (LC8060) mycotoxins: LCMSMS (LC8060)

metals: ICPMS (ICPMS-2030)

microbial: qPCR (AriaMx) and plating

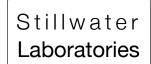






tincture





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

Lot#21047A

Sample Handling test ID 9886.2

type tincture lab ID 1BR22

sample wt order 9886 sample date 2/19/2021

unit unit weight

Methods

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

method

Potency

metals

per

MSP-7.5.1.1 ICPMS2030

equipment

estimated

Terpenes

estimated

estimated

estimated error

not tested

terpenes not tested / not required

Solvents

MT limit

1BR22

LOQ

Pesticides (MT)

MT limit

1BR22

LOQ

Pesticides (other)

LOQ

pesticides not tested / not required

not tested / not required

Toxic Metals

1BR22

LOQ

metals

not tested / not required

Microbial MT limit 1BR22 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 $_{CMS}$ concentration is calculated from the equation XXX $_{CMS}$ concentration is calculated from the equation XXX $_{CMS}$ 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:

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