

CERTIFICATE OF ANALYSIS

 PRODUCT NAME:
 Certified Organic Joy Organics CBD Tincture - Orange

 PRODUCT STRENGTH:
 900mg

 FILL LOT NUMBER:
 B1020-002

 TINCTURE BATCH
 21013A

 BEST BY DATE:
 07/13/2022

 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	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	900-1,125 mg CBD LOQ**: 10 PPM† (0.001%)	930.5 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 1/20/2021

Kei Horikawa Date

Quality Control Manager



certificate ID **0KR46**

B1020-002

sample ID 25004 retention ID 25004

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

total cannabinoids

947.1mg

per 30 mL

THC‡

CBD# 930.5mg

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

7USC1639 Certificate of Analysis

Stillwater Laboratories

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 25004.



Potency per 30 mL (95%Cl k=2) MSP-7.5.1.4 LOQ tetrahydrocannabolic acid (THCa) ND 0.19 | 0.57 | ±0.57mg ND 0.18 | 0.54 | ±0.54mg Δ9-tetrahydrocannabinol (Δ9 THC) Δ8-tetrahydrocannabinol (Δ8 THC) ND 0.24 | 0.72 | ±0.72mg tetrahydrocannabivarin (THCv) ND 0.20 | 0.60 | ±0.60mg cannabidiolic acid (CBDa) ND 0.17 | 0.50 | ±0.50mg cannabidiol (CBD) 930.5mg 0.19 | 0.57 | ±16.33mg cannabidivarin (CBDv) 3.5mg 0.19 | 0.57 | ±0.63mg cannabigerolic acid (CBGa) ND 0.17 | 0.51 | ±0.51 mg 0.21 | 0.62 | ±0.84mg cannabigerol (CBG) 13.1mg ND cannabinol (CBN) 0.10 | 0.31 | ±0.31mg cannabichromene (CBC) ND 0.19 | 0.56 | ±0.56mg

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

Microbial	ISP-7.5.1.	10 Climit	Metals M	SP-7.5.1.1	1 limit	Pesticides	MSP-7.5.1.8	3 limit	Pesticides	MSP-7.5.1.	3 limit
U/23/20	JZU	(X) U	Arsenic	\rightarrow	1500 ppb	Daminozide	PASS	0.0 ppm	Piperonylbutoxide	PASS	8.0 ppm
			Cadmium		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		/\ /\ /\	K R 46 6			Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
Allatoxill	1 700	LOPPO				Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents N	ISP-7.5.1.7	7 limit	Pesticides	ISP-7.5.1.	B limit	Fenpyroximate		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		410 ppm	Acephate		5.0 ppm	Flonicamid	PASS	2.0 ppm	Spiromesifen	PASS	12.0 ppm
Benzene		0 ppm	Acequinocyl		4.0 ppm	Fludioxonil	PASS	30.0 ppm	Spirotetramat	PASS	13.0 ppm
Butane		5000 ppm	Acetamiprid		5.0 ppm	Hexythiazox	PASS	2.0 ppm	Spiroxamine	PASS	0.0 ppm
Chloroform		0 ppm	Aldicarb		0.0 ppm	lmazalil	PASS	0.0 ppm	Tebuconazole	PASS	2.0 ppm
Cyclohexane		0 ppm	Azoxystrobin		40.0 ppm	Imidacloprid	PASS	3.0 ppm	Thiacloprid	PASS	0.1 ppm
Ethanol		10000 ppm	Bifenazate		5.0 ppm	Malathion	PASS	5.0 ppm	Thiamethoxam	PASS	4.5 ppm
Heptane		5000 ppm	Bifenthrin		0.5 ppm	Metalaxyl	PASS	15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
Hexane		290 ppm	Boscalid		10.0 ppm	Methiocarb	PASS	0.0 ppm	10000		
Isopropyl alcohol		5000 ppm	Carbaryl		0.5 ppm	Methomyl	PASS	0.1 ppm			
Methanol		3000 ppm	Carbofuran		0.0 ppm	Methyl parathion	PASS	0.0 ppm			
Pentane		5000 ppm	Chloantraniliprole		40.0 ppm	Mevinphos	PASS	0.0 ppm	potency: HPLC (LC2030C-UV)		2/90
Propane		5000 ppm	Chlorfenapyr			Myclobutanil	PASS	9.0 ppm			
							D400	0	10.50.00.00.00		

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

0.0 ppm

0.5 ppm

0.0 ppm

1.0 ppm

1.0 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

Chlorpyrifos PASS

Clofentezine PASS

Coumaphos PASS

Cypermethrin PASS

Cyfluthrin PASS

10/27/2020 4:45 PM

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Naled

Phosmet PASS

Oxamyl

Paclobutrazol

Permethrin

PASS

PASS

PASS

PASS



0.5 ppm

0.2 ppm

0.0 ppm

0.2 ppm

20.0 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









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

21013A

Sample Handling

test ID 9542.1 sample date 1/18/21 2:34 PM order 9542 labID 1AP15 weight source 1Z435FV90294289931

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-7516	OP2020/HS20		

metals MSP-7.5.1.11

estimated Potency

ICPMS2030

Terpenes

estimated

tincture



estimated estimated

potency not tested terpenes not tested / not required

Solvents Pesticides (MT) Pesticides (other) MT limit 1AP15 LOQ MT limit 1AP15 LOQ

> pesticides not tested / not required

not tested / not required LOQ

Toxic Metals

metals

MT limit

not tested / not required

Microbial MT limit E. coli 0 CFU 10 CFU Salmonella sp. 10 CFU 0 CFU molds 10000 CFU 0 CFU

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_{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 the representation of the combined with the com 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

1AP15

LOQ

<10 CFU/g

<10 CFU/g

<10k CFU/g

Printed 1/20/2021 10:45 AM