



# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Certified Organic Joy Organics CBD FS Tincture - Key Lime  
**PRODUCT STRENGTH:** 2250 mg  
**FILL LOT:** NA  
**TINCTURE BATCH:** 21118A  
**BEST BY DATE:** 10/28/2022  
**HEMP EXTRACT LOT** CO409-001

*\*Click on the links to view third-party reports\**

### Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	Characteristic - Coconut and hemp, lime.	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
<b>Potency - Total CBD</b>	SOP-111	2250-2812.5 mg CBD LOQ**: 10 PPM† (0.001%)	<b>2311.3 mg</b>	PASS
<b>Potency - D9-THC</b>	SOP-111	LOQ: 10 PPM (0.001%-0.3%)	<b>.26%</b>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	<b>ND</b>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>Microbial - Yeast and Mold</b>	SOP-111	Complies with USP 61/62	<b>Below LOQ</b>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<b>ND</b>	PASS

\* \*Level of Quantitation, † Parts Per Million

Quality Certified

*Kayla Kolber*  
 Kayla Kolber  
 Quality Assurance Technician

05/04/2021

Date



CO409-001

7USC1639 Certificate of Analysis

sample ID 26544

man. date 4/11/0021

total cannabinoids 2542.9mg per 30mL

THC‡ 74.0mg CBD‡ 2311.3m terpenes

certificate ID 1DK20

Stillwater Laboratories

order 10408

analysis date 4/12/2021 3:57:36 PM

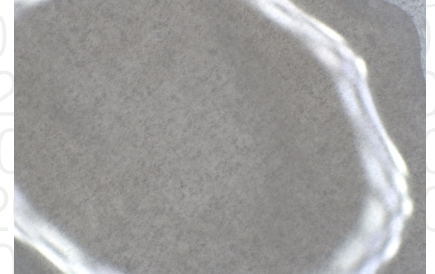
test tag S1EJB

sample wgt 28.4 g

Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample (28.35g) received in a client-labeled bottle, received at lab. Labeled 26544 and sample tag S1EJB.

- caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool



infused

Potency per 30mL

Table with columns: Component, Amount, LOD, LOQ, Error (95%CI k=2). Rows include total CBD, THC, and various cannabinoids.

Terpenes

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

Microbial

Table with columns: Microbial, Limit. Rows include E.coli, Salmonella sp., molds, Ochratoxin A, Aflatoxin.

Metals

Table with columns: Metal, Limit. Rows include Arsenic, Cadmium, Lead, Mercury.

Pesticides

Table with columns: Pesticide, Limit. Rows include Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloanthraniliprole, Chlorfenapyr, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate.

Pesticides

Table with columns: Pesticide, Limit. Rows include Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclbutrazol, Permethrin.

Solvents

Table with columns: Solvent, Limit. Rows include Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes.

Pesticides

Table with columns: Pesticide, Limit. Rows include Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin.

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:

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

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Kyle Larson, MSc (Biology)
Deputy Director

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certificate ID  
**1DZ68**

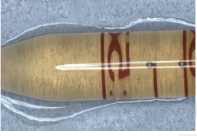
**OFTKL2250**

# 7USC1639 Certificate of Analysis

Lot# 21118A

rec'd 4/30/2021 12:27:35 PM

order 10620



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

Stillwater Laboratories



per

Microbial	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	0CFU	0.010.11	±0.1CFU		PASS
Salmonella sp.	ND	0CFU	0.010.11	±0.1CFU		PASS
molds	ND	10000CFU	2.016.11	±6.1CFU		PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSC  
Deputy Director



<https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-871A-419DCF43B0D7>

**Stillwater Laboratories Inc.**  
MT License L0001, L00007  
6073 US93N Suite 5, Olney MT 59927  
406-881-2019

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated as:  $[\text{cannabinoid}] = [\text{cannabinoid}]_{\text{HPLC}} \times \text{volume}_{\text{dilution}} / \text{M}_{\text{dry}}$  • Decarboxyated cannabinoid concentration is calculated  $\text{XXX}_{\text{total}} = 0.877 \times \text{XXXa} + \text{XXX}$  • Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula  $s_e^2 = \sum (\partial f / \partial i)^2 s_i^2$  where  $i$  is the contributor to error. The 95% confidence range is calculated from:  $(\text{concentration}) \pm t_{\text{CL},90} \times s_e$ . Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

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