

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Certified Organic CBD FS Tincture - Key Lime
PRODUCT STRENGTH:	900 mg
FILL LOT NUMBER:	200916B
TINCTURE BATCH	200921B
BEST BY DATE:	03/29/2022
HEMP EXTRACT LOT*:	B0630-001

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	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%)	963.3 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	.12%	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
Manager of Quality Assurance

10/20/2020

Date



total cannabinoids	Δ9-THC	THCa	total THC
36 mg	1.15 mg	0.00 mg	1.15 mg
per mL	CBD	CBDa	total CBD
	31.96 mg	0.18 mg	32.11 mg

Lot# 200916B

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



Stillwater
Laboratories

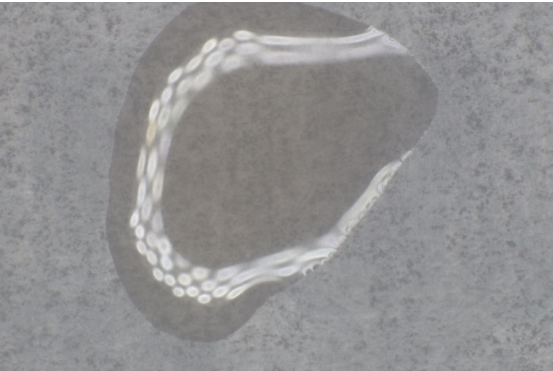
https://portal.a2la.org/scopepdf/4961-01.pdf

Sample Handling

test ID	sample wt
type	order
lab ID	sample date
unit	unit weight
tincture	8410
0JQ21	9/21/2020
mL	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 RTPCR
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.1	ICPMS2030

tincture



Potency	per	mL	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.00 mg	± 0.02 mg	terpenes not tested / not required						
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	.12%	1.15 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)	.02%	0.18 mg	± 0.02 mg							
cannabidiol (CBD)	3.4%	31.96 mg	± 0.04 mg							
cannabidivarin (CBDv)	.02%	0.16 mg	± 0.02 mg							
cannabigerolic acid (CBGa)	0%	0.00 mg	± 0.02 mg							
cannabigerol (CBG)	.09%	0.84 mg	± 0.02 mg							
cannabinol (CBN)	.03%	0.31 mg	± 0.02 mg							
cannabichromene (CBC)	.12%	1.13 mg	± 0.02 mg							

Solvents	MT limit	0JQ21	LOQ	Pesticides (MT)	MT limit	0JQ21	LOQ	Pesticides (other)	0JQ21	LOQ
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pesticides
not tested / not required

not tested /
not required

Toxic Metals	MT limit	0JQ21	LOQ
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metals
not tested / not required

Microbial	MT limit	0JQ21	LOQ
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microbial not tested

Comments

Density = 0.94004g/mL

Certified by:

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

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. •• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + 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_g² = Σ (∂f/∂i)² s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not

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total
cannabinoids
10.7%

	CBD	THC
total	10.0%	0.2%
decarb total	9.99%	.22%



ISO/IEC 17025:2017

 Certificate #4961.01

Stillwater Laboratories

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

test ID	sample date	7/3/20 4:41 PM
order 7737	labID 0GD32	weight
source		

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-7.5.1.9	Hardy Diag
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.10	ICPMS2030



A circular, dark red, textured object, possibly a seed or fruit, viewed through a circular opening, likely a petri dish lid. The object has a mottled, granular appearance with some darker spots. The surrounding area is a bright, slightly blurred white, suggesting a light source or a reflective surface.

Potency	%	estimated error	Terpenes	%	estimated error		%	estimated error		%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	± 0.02 %	β-myrcene	0.000%	± 0.0016 %	camphene	0.000%	± 0.0016 %	guaiol	0.000%	± 0.0016 %
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	.22%	± 0.04 %	β-caryophyllene	0.000%	± 0.0016 %	Δ ³ -carene	0.000%	± 0.0016 %	β-bisabolol	0.000%	± 0.0016 %
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0%	± 0.02 %	alpha-pinene	0.000%	± 0.0016 %	a-terpinene	0.000%	± 0.0016 %	eucalyptol	0.000%	± 0.0016 %
tetrahydrocannabivarin (THCv)	0%	± 0.02 %	β-pinene	0.000%	± 0.0016 %	para-cymene	0.000%	± 0.0016 %			
cannabidiolic acid (CBDa)	0%	± 0.02 %	D-limonene	0.000%	± 0.0016 %	g-terpinene	0.000%	± 0.0016 %			
cannabidiol (CBD)	9.99%	± 0.26 %	linalool	0.000%	± 0.0016 %	(-)-isopulegol	0.000%	± 0.0016 %			total
cannabidivarin (CBDv)	0%	± 0.02 %	ocimene	0.000%	± 0.0033 %	geraniol	0.000%	± 0.0016 %			terpenes
cannabigerolic acid (CBGa)	0%	± 0.02 %	terpinolene	0.000%	± 0.0016 %	cis-nerolidol	0.000%	± 0.0016 %			
cannabigerol (CBG)	.09%	± 0.03 %	alpha-humulene	0.000%	± 0.0016 %	trans-nerolidol	0.000%	± 0.0016 %			0.00%
cannabinolone (CBN)	.07%	± 0.03 %									
cannabichomene (CBC)	.31%	± 0.05 %									

[illegible]

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Sample Information

CTLA ID: 21730
Date Received: 9/30/2020
Sample Name: Organic FS MCT Key Lime 900 Production
Lot Number: 200921B
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
<i>E. coli</i>	USP <2022>		Report	Negative	
<i>Salmonella</i>	USP <2022>		Report	Negative	
<i>Staphylococcus aureus</i>	USP <2022>		Report	Negative	
Rapid Yeast and Mold	AOAC 997.02	10	Report	<10	cfu/g

10/5/2020
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.