

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Tincture - Mint
PRODUCT STRENGTH: 1350 mg
LOT NUMBER: 20LL122K12
BEST BY DATE: 11/6/21
HEMP EXTRACT LOT 112619

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 - Olive and hemp, minty	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	1282.5-1687.5 mg CBD LOQ**: 10 PPM† (0.001%)	1380mg	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 Tincture, Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOD	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

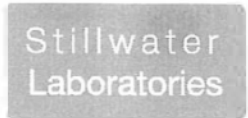
Quality Certified by: *Darcie Moran* 05/19/2020
 Darcie Moran Date
 Manager of Quality Assurance

Mint 1350mg 20LL122K12

Certificate of Analysis



total cannabinoids	Δ9-THC	THCa	total THC
1437 mg	0 mg	0 mg	0 mg
per ounce	CBD	CBDa	total CBD
	1380 mg	0 mg	1380 mg



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

Sample Handling

test ID	sample wt
type	order 7320
lab ID 0EP16	sample date
unit ounce	unit weight 27.6 g

Methods

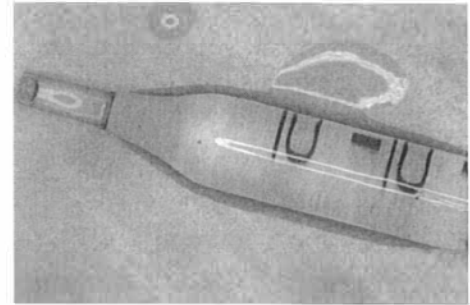
method	equipment
weights	MSP-7.3.1.3 AUX120.1
potency	MSP-7.5.1.5 LC-2030
terpenes	MSP-7.5.1.7 QP2020/HS20
pesticides	MSP-7.5.1.8 LC-8060
mycotoxins	MSP-7.5.1.8 LC-8060
microbial	MSP-7.5.1.9 Hardy Diag
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

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

HERBAL



R ORAL



Potency

per ounce	estimated error
tetrahydrocannabinolic acid (THCa)	0% 0 mg ± 0.45 mg
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0% 0 mg ± 0.45 mg
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0% 0 mg ± 0.45 mg
tetrahydrocannabivarin (THCv)	0% 0 mg ± 0.45 mg
cannabidiolic acid (CBDa)	0% 0 mg ± 0.45 mg
cannabidiol (CBD)	5% 1380 mg ± 5.04 mg
cannabidivarin (CBDv)	0% 0 mg ± 0.45 mg
cannabigerolic acid (CBGa)	0% 0 mg ± 0.45 mg
cannabigerol (CBG)	.21% 57 mg ± 1.12 mg
cannabinol (CBN)	0% 0 mg ± 0.45 mg
cannabichromene (CBC)	0% 0 mg ± 0.45 mg

Terpenes

%	estimated error	%	estimated error	%	estimated error
β-myrcene	0.000% ± 0.0016%	camphene	0.000% ± 0.0016%	guaiol	0.000% ± 0.0016%
β-caryophyllene	0.000% ± 0.0016%	Δ ³ -carene	0.000% ± 0.0016%	β-bisabolol	0.001% ± 0.0017%
alpha-pinene	0.003% ± 0.0018%	a-terpinene	0.000% ± 0.0016%	eucalyptol	0.007% ± 0.0019%
β-pinene	0.000% ± 0.0016%	para-cymene	0.000% ± 0.0016%		
D-limonene	0.008% ± 0.0019%	g-terpinene	0.000% ± 0.0016%		
linalool	0.002% ± 0.0017%	(-)-isopulegol	0.000% ± 0.0016%	total terpenes	0.02%
ocimene	0.001% ± 0.0033%	geraniol	0.002% ± 0.0017%		
terpinolene	0.000% ± 0.0016%	cis-nerolidol	0.000% ± 0.0016%		
alpha-humulene	0.000% ± 0.0016%	trans-nerolidol	0.000% ± 0.0016%		

Solvents

MT limit	0EP16	LOQ
propane	5,000	0 ppm <10ppm
butanes	5,000	0 ppm <10ppm
pentanes	5,000	0 ppm <10ppm
hexanes	290	0 ppm <10ppm
cyclohexane	3,880	0 ppm <10ppm
heptanes	5,000	0 ppm <10ppm
methanol	3,000	0 ppm <10ppm
isopropanol	5,000	0 ppm <10ppm
acetone	5,000	0 ppm <10ppm
ethyl acetate	5,000	0 ppm <10ppm
benzene	2	0 ppm <0.2ppm
toluene	890	0 ppm <10ppm
xylenes	2,170	0 ppm <10ppm
chloroform	2	0 ppm <0.2ppm
dichloromethane	600	0 ppm <10ppm

Pesticides (MT)

MT limit	0EP16	LOQ
abamectin	0.00 ppm	<10ppb
acequinocyl	0.00 ppm	<10ppb
bifenazate	0.00 ppm	<10ppb
bifenthrin	0.00 ppm	<10ppb
chlormequat cl.	0.00 ppm	<10ppb
cyfluthrin	0.00 ppm	<80ppb
diaminoozide	0.00 ppm	<10ppb
etoxazole	0.00 ppm	<10ppb
fenoxycarb	0.00 ppm	<10ppb
imazalil	0.00 ppm	<10ppb
imidacloprid	0.00 ppm	<10ppb
myclobutanil	0.00 ppm	<10ppb
paclobutrazol	0.00 ppm	<10ppb
pyrethrins	0.00 ppm	<10ppb
spinosad	0.00 ppm	<10ppb
spiromesifen	0.00 ppm	<10ppb
spirotetramat	0.00 ppm	<10ppb
trifloxystrobin	0.00 ppm	<10ppb

Pesticides (other)

0EP16	LOQ
acephate	0.00 ppm <10ppb
acetamidrid	0.00 ppm <10ppb
aldicarb	0.00 ppm <10ppb
azoxystrobin	0.00 ppm <10ppb
boscalid	0.00 ppm <10ppb
carbaryl	0.00 ppm <10ppb
carbofuran	0.00 ppm <10ppb
chlorantraniliprole	0.00 ppm <10ppb
chlorpyrifos	0.00 ppm <10ppb
clofentazine	0.00 ppm <10ppb
cypermethrin	0.00 ppm <10ppb
diazinon	0.00 ppm <10ppb
dichlorvos	0.00 ppm <10ppb
dimethoate	0.00 ppm <10ppb
etofenprox	0.00 ppm <10ppb
fenpyroximate	0.00 ppm <10ppb
fipronil	0.00 ppm <10ppb
flonicamid	0.00 ppm <10ppb
fludioxonil	0.00 ppm <10ppb
hexythiazox	0.00 ppm <10ppb
kresoxym-methyl	0.00 ppm <10ppb
malathion	0.00 ppm <10ppb
metalaxyl	0.00 ppm <10ppb
methiocarb	0.00 ppm <10ppb
methomyl	0.00 ppm <10ppb
oxaryl	0.00 ppm <10ppb
permethrins	0.00 ppm <10ppb
phosmet	0.00 ppm <10ppb
piperonyl butoxide	0.00 ppm <10ppb
prallethrin	0.00 ppm <10ppb
propiconazole	0.00 ppm <10ppb
pyridaben	0.00 ppm <10ppb
spiroxamine	0.00 ppm <10ppb
tebuconazole	0.00 ppm <10ppb
thiacloprid	0.00 ppm <10ppb
thiamethoxam	0.00 ppm <10ppb

Toxic Metals

MT limit	0EP16	LOQ
arsenic	2 ppm	0.0 ppm <10ppb
cadmium	4.1 ppm	0.0 ppm <10ppb
lead	1.2 ppm	0.0 ppm <10ppb
mercury	0.4 ppm	0.0 ppm <10ppb

Microbial

MT limit	0EP16	LOQ
<i>E. coli</i>	10 CFU	0 CFU <10 CFU/g
<i>Salmonella</i> sp.	10 CFU	0 CFU <10 CFU/g
molds	10000 CFU	0 CFU <10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb <20 ppb
Ochratoxin A	20 ppb	0 ppb <20 ppb

Comments

All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{PLC} X volume_{dilution} / m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GC/MS} / m_{dry}. Decarboxylated 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_p² = Σ(∂f/∂i)²s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL95} X s_p. Sampling error is not

Certified by:

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