

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** CBD Tincture - Mint  
**PRODUCT STRENGTH:** 900 mg  
**LOT NUMBER:** 20LL042A11  
**BEST BY DATE:** 7/28/21  
**HEMP EXTRACT LOT NUMBER\*:** [110419](#)

[\\*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 ba intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficie 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	855-1125 mg CBD LOQ**: 10 PPM† (0.001%)	<a href="#">916.3mg</a>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<a href="#">ND</a>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	<a href="#">ND</a>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<a href="#">≤LOQ</a>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<a href="#">≤LOQ</a>	PASS
<b>Microbial - Mold</b>	SOP-111	Complies with USP 61/62	<a href="#">≤LOQ</a>	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	<a href="#">≤LOQ</a>	PASS

\* Level of Quantitation, † Parts Per Million

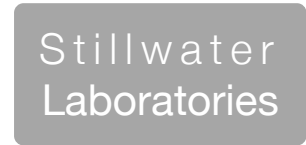
Quality Certified by: *Darcie Moran* 03.05.2020  
 Darcie Moran Date  
 Manager of Quality Assurance



total cannabinoids  
**961.5 mg**  
 per  
**ounce**

$\Delta^9$ -THC ND  
 THCa ND  
 total THC 0 mg

CBD 916.3 mg  
 CBDa 2 mg  
 total CBD 916.3 mg



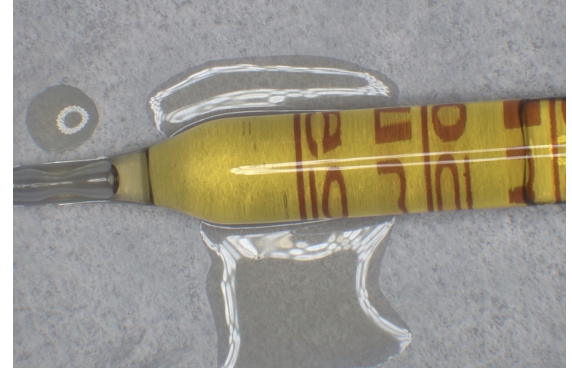
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID sample wt  
 type order **6598**  
 lab ID **OBM64** sample date 2/18/2020  
 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



Potency	per ounce	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	ND	ND ± 0.45 mg	terpenes not tested / not required						
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	ND	ND ± 0.45 mg							
$\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ THC)	ND	ND ± 0.45 mg							
tetrahydrocannabivarin (THCv)	ND	ND ± 0.45 mg							
cannabidiolic acid (CBDa)	.01%	2 mg ± 0.52 mg							
cannabidiol (CBD)	3.32%	916.3 mg ± 5.39 mg							
cannabidivarin (CBDv)	.01%	3.3 mg ± 0.56 mg							
cannabigerolic acid (CBGa)	ND	ND ± 0.45 mg							
cannabigerol (CBG)	.12%	32.8 mg ± 1.11 mg							
cannabinol (CBN)	.02%	6.7 mg ± 0.65 mg							
cannabichromene (CBC)	0%	.4 mg ± 0.47 mg							

Solvents	MT limit	OBM64	LOQ	Pesticides (MT)	MT limit	OBM64	LOQ	Pesticides (other)	OBM64	LOQ
solvents not tested / not required				abamectin		0.00 ppm	<10ppb	acephate	0.00 ppm	<10ppb
				acequinocyl		0.00 ppm	<10ppb	acetamiprid	0.00 ppm	<10ppb
				bifenazate		0.00 ppm	<10ppb	aldicarb	0.00 ppm	<10ppb
				bifenthrin		0.00 ppm	<10ppb	azoxystrobin	0.00 ppm	<10ppb
				chloromequat cl.		0.00 ppm	<10ppb	boscalid	0.00 ppm	<10ppb
				cyfluthrin		0.00 ppm	<80ppb	carbaryl	0.00 ppm	<10ppb
				diaminozide		0.00 ppm	<10ppb	carbofuran	0.00 ppm	<10ppb
				etoxazole		0.00 ppm	<10ppb	chlorantraniliprole	0.00 ppm	<10ppb
				fenoxycarb		0.00 ppm	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
				imazalil		0.00 ppm	<10ppb	clofentazine	0.00 ppm	<10ppb
			imidacloprid		0.00 ppm	<10ppb	cypermethrin	0.00 ppm	<10ppb	
			myclobutanil		0.00 ppm	<10ppb	diazinon	0.00 ppm	<10ppb	
			paclobutrazol		0.00 ppm	<10ppb	dichlorvos	0.00 ppm	<10ppb	
			pyrethrins		0.00 ppm	<10ppb	dimethoate	0.00 ppm	<10ppb	
			spinosad		0.00 ppm	<10ppb	etofenprox	0.00 ppm	<10ppb	
			spiromesifen		0.00 ppm	<10ppb	fenpyroximate	0.00 ppm	<10ppb	
			spirotetramat		0.00 ppm	<10ppb	fenprophamid	0.00 ppm	<10ppb	
			trifloxystrobin		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	
							oxamyl	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	OBM64	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

Comments

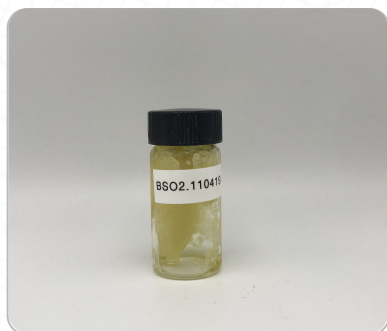
Microbial	MT limit	OBM64	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> x volume<sub>dilution</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. ••• Decarboxyated cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 x XXX<sub>a</sub> + 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<sub>g</sub><sup>2</sup> = Σ(∂f/∂i)<sup>2</sup>s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL90</sub> x s<sub>g</sub>. Sampling error is not

Certified by:

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

Order #: 40909  
 Order Name: BSO2.110419  
 Batch #: BSO2.110419  
 Complete: 11/08/2019



N/D  
D9-THC

83.965%  
Total CBD

Delta-9-Tetrahydrocannabinol	0%
Tetrahydrocannabinolic Acid	0%
Cannabidiol	84%
Cannabidiolic Acid	0%
Cannabidivarin	1%
Cannabichromene	0%
Cannabinol	0%
Cannabigerol	4%
Cannabigerolic Acid	0%
Delta-8-Tetrahydrocannabinol	0%
Tetrahydrocannabivarin	0%

Cannabinoids	LOQ	weight(%)	mg/g
D9-THC	< 0.05%	N/D	N/D
THCA	< 0.05%	N/D	N/D
CBD	< 0.05%	< 83.96%	< 839.65
CBDA	< 0.01%	N/D	N/D
CBDV	< 0.01%	< 0.23%	< 2.30
CBC	< 0.01%	N/D	N/D
CBN	< 0.01%	N/D	N/D
CBG	< 0.01%	< 3.41%	< 34.09
CBGA	< 0.01%	N/D	N/D
D8-THC	< 0.05%	N/D	N/D
THCV	< 0.05%	N/D	N/D
TOTAL D9-THC	N/A	< N/D	< N/D
TOTAL CBD*	N/A	< 83.965%	< 839.655
TOTAL CANNABINOIDS	N/A	< 87.606%	< 876.056

Metal	Action Level	Result
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Limit of Quantitation (LOQ) is 85 ppb

**Residual Solvents**

Solvent Name	Action Level	Results	LOQ
ACETONE	5,000	N/D	280
ACETONITRILE	410	N/D	50
BENZENE	1	N/D	1
BUTANE	5,000	N/D	100
CHLOROFORM	1	N/D	1
DICHLOROETHANE	1	N/D	1
DICHLOROMETHANE	1	N/D	1
ETHANOL	5,000	N/D	280
ETHYL ACETATE	5,000	N/D	280
ETHYL ETHER	5,000	N/D	280

Solvent Name	Action Level	Results	LOQ
ISOPROPYL ALCOHOL	5,000	N/D	280
METHANOL	3,000	N/D	200
N-HEPTANE	5,000	N/D	280
N-HEXANE	290	N/D	36
PENTANE	5,000	N/D	280
PROPANE	5,000	N/D	40
TOLUENE	890	N/D	106
TRICHLOROETHENE	1	N/D	0
XYLENES	2,170	N/D	260

**Pesticide**

Pesticide Name	Action Level	Results	LOQ
ABAMECTIN B1A	0.100	N/D	0.02
ACEPHATE	0.100	N/D	0.004
ACEQUINOCYL	0.100	N/D	0.004
ACETAMIPRID	0.100	N/D	0.02
ALDICARB	0.100	N/D	0.02
AZOXYSTROBIN	0.100	N/D	0.004
BIFENAZATE	0.100	N/D	0.02
BIFENTHRIN	3.000	N/D	0.02
BOSCALID	0.100	N/D	0.02
CARBARYL	0.500	N/D	0.012
CARBOFURAN	0.100	N/D	0.004
CHLORANTRANILIPROLE	10.000	N/D	0.02
CHLORPYRIFOS	0.100	N/D	0.004
CLOFENTEZINE	0.100	N/D	0.004
DAMINOZIDE	0.100	N/D	0.02
DIAZANON	0.100	N/D	0.004
DICHLORVOS	0.100	N/D	0.02
DIMETHOATE	0.100	N/D	0.004
DIMETHOMORPH	2.000	N/D	0.02

Pesticide Name	Action Level	Results	LOQ
ETHOPROPHOS	0.100	N/D	0.004
ETOFENPROX	0.100	N/D	0.004
ETOXAZOLE	0.100	N/D	0.04
FENHEXAMID	0.100	N/D	0.02
FENOXYCARB	0.100	N/D	0.02
FENPYROXIMATE	0.100	N/D	0.004
FIPRONIL	0.100	N/D	0.012
FLONICAMID	0.100	N/D	0.05
FLUDIOXONIL	0.100	N/D	0.012
HEXYTHIAZOX	0.100	N/D	0.02
IMAZALIL	0.100	N/D	0.02
IMIDACLOPRID	5.000	N/D	0.02
KRESOXIM-METHYL	0.100	N/D	0.04
MALATHION	0.500	N/D	0.02
METALAXYL	2.000	N/D	0.004
METHIOCARB	0.100	N/D	0.02
METHOMYL	1.000	N/D	0.004
MEVINPHOS	0.100	N/D	0.004
MYCLOBUTANIL	0.100	N/D	0.02

Pesticide Name	Action Level	Results	LOQ
NALED	0.100	N/D	0.02
OXAMYL	0.500	N/D	0.004
PACLOBUTRAZOL	0.100	N/D	0.02
PERMETHRINS	0.500	N/D	0.02
PHOSMET	0.100	N/D	0.02
PRALLETHRIN	0.100	N/D	0.02
PROPICONAZOLE	0.100	N/D	0.04
PROPOXUR	0.100	N/D	0.004
PYRETHRINS (PYRETHRIN I)	0.500	N/D	0.02
PYRIDABEN	0.100	N/D	0.02
SPINETORAM	0.100	N/D	0.004
SPINOSAD	0.100	N/D	0.004
SPIROMESIFEN	0.100	N/D	0.02
SPIROTETRAMAT	0.100	N/D	0.004
SPIROXAMINE	0.100	N/D	0.004
TEBUCONAZOLE	0.100	B/LOQ	0.02
THIACLOPRID	0.100	N/D	0.004
THIAMETHOXAM	5.000	N/D	0.004
TRIFLOXYSTROBIN	0.100	N/D	0.004

