

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Certified Organic CBD Tincture - Lemon  
**PRODUCT STRENGTH:** 900 mg  
**FILL LOT NUMBER:** 200909B  
**TINCTURE BATCH** 200914H  
**BEST BY DATE:** 03/22/2022  
**HEMP EXTRACT LOT** B01801-001

\*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, lemon	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	900-1,125 mg CBD LOQ** : 10 PPM† (0.001%)	<b>917.1 mg</b>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<b>ND</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

*Kei Horikawa*

Kei Horikawa  
Quality Control Manager

10/01/2020

Date

ORG BSMCT Lemon900

Certificate of Analysis



total cannabinoids <b>31 mg</b> per <b>mL</b>	$\Delta^9$ -THC	THCa	total THC
	0.00 mg	0.00 mg	0.00 mg
	CBD	CBDa	total CBD
	30.57 mg	0.00 mg	30.57 mg

Lot# 200909B

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



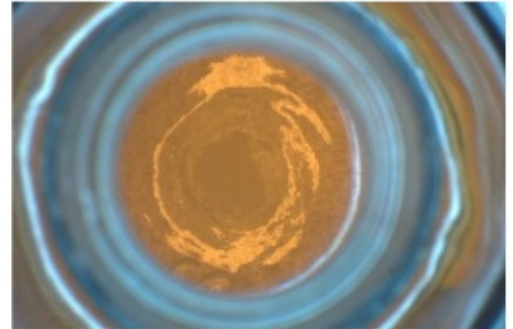
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Stillwater Laboratories

Sample Handling

test ID	sample wt
type concentrate	order <b>8322</b>
lab ID <b>0JG57</b>	sample date 9/10/2020
unit mL	unit weight <b>0.9 g</b>

concentrate



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

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						
$\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ THC)	0%	0.00 mg ± 0.02 mg							
$\Delta^9$ -tetrahydrocannabinol ( $\Delta^9$ THC)	0%	0.00 mg ± 0.02 mg							
tetrahydrocannabivarin (THCv)	0%	0.00 mg ± 0.02 mg							
cannabidiolic acid (CBDa)	0%	0.00 mg ± 0.02 mg							
cannabidiol (CBD)	3.25%	30.57 mg ± 0.04 mg							
cannabidivarin (CBDv)	0%	0.00 mg ± 0.02 mg							
cannabigerolic acid (CBGa)	0%	0.00 mg ± 0.02 mg							
cannabigerol (CBG)	.06%	0.60 mg ± 0.02 mg							
cannabinol (CBN)	0%	0.00 mg ± 0.02 mg							
cannabichromene (CBC)	0%	0.00 mg ± 0.02 mg							

Pesticides (MT)    MT limit    0JG57    LOQ    Pesticides (other)    0JG57    LOQ

pesticides  
not tested / not required

not tested /  
not required

Toxic Metals    MT limit    0JG57    LOQ

metals  
not tested / not required

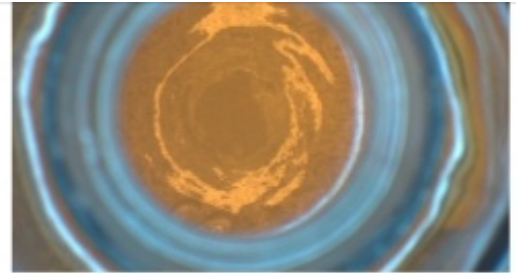
Microbial    MT limit    0JG57    LOQ

microbial not tested

Comments

unit mL unit weight 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



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 <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC)	0%	0.00 mg ± 0.02 mg							
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> THC)	0%	0.00 mg ± 0.02 mg							
tetrahydrocannabivarin (THCv)	0%	0.00 mg ± 0.02 mg							
cannabidiolic acid (CBDA)	0%	0.00 mg ± 0.02 mg							
cannabidiol (CBD)	3.25%	30.57 mg ± 0.04 mg							
cannabidivarin (CBDv)	0%	0.00 mg ± 0.02 mg							
cannabigerolic acid (CBGA)	0%	0.00 mg ± 0.02 mg							
cannabigerol (CBG)	.06%	0.60 mg ± 0.02 mg							
cannabinol (CBN)	0%	0.00 mg ± 0.02 mg							
cannabichromene (CBC)	0%	0.00 mg ± 0.02 mg							

Pesticides (MT) MT limit 0JG57 LOQ Pesticides (other) 0JG57 LOQ

pesticides  
not tested / not required

not tested /  
not required

Toxic Metals MT limit 0JG57 LOQ

metals  
not tested / not required

Microbial MT limit 0JG57 LOQ

microbial not tested

Comments

Density = 0.941264g/mL

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>PLC</sub> x volume<sub>diluter</sub>/m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 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 error from weighing and dilution using the propagation of error formula s<sub>e</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>e</sub>. Sampling error is not

Certified by:

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Deputy Director  
6073 US93N, Olney MT 59927  
406-881-2019 rdb@stwiabs.com

B0810-001

Certificate of Analysis



total cannabinoids **83.7%**  
24273  
CBD total 82.8%  
THC 0.0%  
decarb total 82.76%  
0%

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



Stillwater Laboratories

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

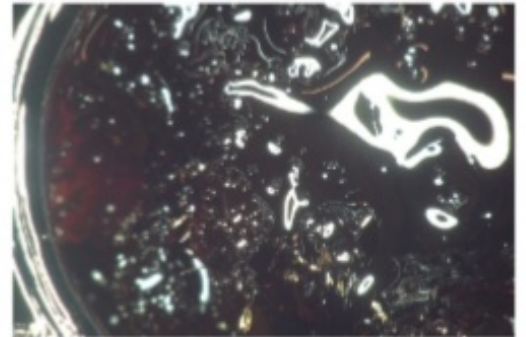
Sample Handling

test ID 8037 sample date 8/11/20 12:04 PM  
order 8037 labID OHE39 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-7.5.1.1	AriaMx
solvents MSP-7.5.1.6	QP2020/HS20
metals MSP-7.5.1.11	ICPMS2030

concentrate



Potency	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	± 0.02 %
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> THC)	0%	± 0.02 %
Δ <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC)	0%	± 0.02 %
tetrahydrocannabivarin (THCv)	0%	± 0.02 %
cannabinolic acid (CBDA)	0%	± 0.02 %
cannabidiol (CBD)	82.76%	± 0.74 %
cannabidivarin (CBDv)	0%	± 0.02 %
cannabigerolic acid (CBGA)	0%	± 0.02 %
cannabigerol (CBG)	.93%	± 0.08 %
cannabinol (CBN)	0%	± 0.02 %
cannabichromene (CBC)	0%	± 0.02 %

Terpenes	%	estimated error
terpenes	not tested / not required	

Solvents	MT limit	OHE39	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	OHE39	LOQ
abamectin	2.50 ppm	0.00 ppm	<10ppb
acequinocyl	10.00 ppm	0.00 ppm	<10ppb
bifenazate	1.00 ppm	0.00 ppm	<10ppb
bifenthrin	1.00 ppm	0.00 ppm	<10ppb
chlomequat cl.	5.00 ppm	0.00 ppm	<10ppb
cyfluthrin	5.00 ppm	0.00 ppm	<80ppb
diaminozide	5.00 ppm	0.00 ppm	<10ppb
etoxazole	1.00 ppm	0.00 ppm	<10ppb
fenoxycarb	1.00 ppm	0.00 ppm	<10ppb
imazalil	1.00 ppm	0.00 ppm	<10ppb
imidacloprid	2.00 ppm	0.00 ppm	<10ppb
myclobutanil	0.60 ppm	0.00 ppm	<10ppb
paclobutrazol	2.00 ppm	0.00 ppm	<10ppb
pyrethrins	5.00 ppm	0.00 ppm	<10ppb
spinosad	1.00 ppm	0.00 ppm	<10ppb
spiromesifen	1.00 ppm	0.00 ppm	<10ppb
spirotetramat	1.00 ppm	0.00 ppm	<10ppb
trifloxystrobin	1.00 ppm	0.00 ppm	<10ppb

Pesticides (other)	OHE39	LOQ
acephate	0.00 ppm	<10ppb
acetamiprid	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
clofentezine	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

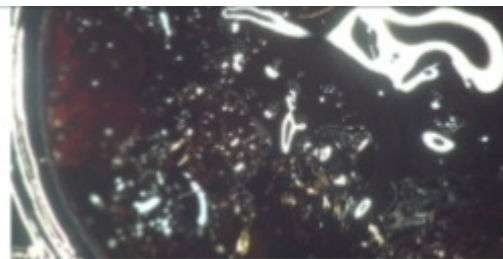
Toxic Metals	MT limit	OHE39	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	0.8 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Comments

microbial not tested

Aflatoxin R1 R2 G1 G2 90 ppb 0 ppb

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
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.11	ICPMS2030



Potency	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	± 0.02 %
Δ <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC)	0%	± 0.02 %
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> THC)	0%	± 0.02 %
tetrahydrocannabinavarin (THCv)	0%	± 0.02 %
cannabidiolic acid (CBDA)	0%	± 0.02 %
cannabidiol (CBD)	82.76%	± 0.74 %
cannabidivarin (CBDv)	0%	± 0.02 %
cannabigerolic acid (CBGa)	0%	± 0.02 %
cannabigerol (CBG)	.93%	± 0.08 %
cannabinol (CBN)	0%	± 0.02 %
cannabichromene (CBC)	0%	± 0.02 %

Terpenes	%	estimated error	%	estimated error	%	estimated error
terpenes not tested / not required						

Solvents	MT limit	OHE39	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
xylene	2,170	0 ppm	<10ppm
chloroform	2	0 ppm	<0.2ppm
dichloromethane	600	0 ppm	<10ppm

Pesticides (MT)	MT limit	OHE39	LOQ
abamectin	2.50 ppm	0.00 ppm	<10ppb
acequinocyl	10.00 ppm	0.00 ppm	<10ppb
bifenazate	1.00 ppm	0.00 ppm	<10ppb
bifenthrin	1.00 ppm	0.00 ppm	<10ppb
chlormequat cl.	5.00 ppm	0.00 ppm	<10ppb
cyfluthrin	5.00 ppm	0.00 ppm	<80ppb
diaminazide	5.00 ppm	0.00 ppm	<10ppb
etoxazole	1.00 ppm	0.00 ppm	<10ppb
fenoxycarb	1.00 ppm	0.00 ppm	<10ppb
imazalil	1.00 ppm	0.00 ppm	<10ppb
imidacloprid	2.00 ppm	0.00 ppm	<10ppb
myclobutanil	0.60 ppm	0.00 ppm	<10ppb
paclobutrazol	2.00 ppm	0.00 ppm	<10ppb
pyrethrins	5.00 ppm	0.00 ppm	<10ppb
spinosad	1.00 ppm	0.00 ppm	<10ppb
spiromesifen	1.00 ppm	0.00 ppm	<10ppb
spirotetramat	1.00 ppm	0.00 ppm	<10ppb
trifloxystrobin	1.00 ppm	0.00 ppm	<10ppb

Pesticides (other)	OHE39	LOQ
acephate	0.00 ppm	<10ppb
acetamiprid	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
clofentezine	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
flupyrifid	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	OHE39	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	0.8 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	OHE39	LOQ
microbial not tested			
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>std</sub> x volume<sub>std</sub> / m<sub>std</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>std</sub> / m<sub>std</sub>. --- Decarboxylated cannabinoid concentration is calculated from the equation XXX<sub>std</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>e</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>0.975</sub> x s<sub>e</sub>. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)  
Deputy Director  
6073 US93N, Olney MT 09927  
406-881-2019 rdb@stwalabs.com

Printed 8/16/2020 8:48 AM

# Certificate of Analysis

## Sample Information

CTLA ID: 21588  
 Date Received: 9/24/2020  
 Sample Name: Org. BS MCT Lemon 900 Packaging  
 Lot Number: 200914H  
 Customer:

Analysis	Method	MDL Specification	Result	Units
<b>Rapid Complete Micro</b>				
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

9/28/2020

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.