

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Tincture - Natural
PRODUCT STRENGTH: 1350 mg
FILL LOT NUMBER: 200331A
TINCTURE LOT NUMBER:** 200312B
BEST BY DATE: 3/13/21
HEMP EXTRACT LOT NUMBER*: 111919

MADE IN SMALL BATCHES (TINCTURE LOT NUMBER) AND FILLED IN ONLY ONE LOT (FILL LOT NUMBER) ALL LOTS ARE TESTED FOR MICRO

Click on the links to view third party results

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	Characteristic - Olive and hemp	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
Potency - Total CBD	SOP-111	1282.5-1687.5 mg CBD LOQ**: 10 PPM† (0.001%)	1413 mg	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 Tinctures, Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	≤LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	≤LOQ	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	≤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 by: *Darcie Moran* 04.17.2020
 Darcie Moran Date
 Manager of Quality Assurance



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COA No.:	M-JO040320-02
COA Date:	04/08/20
Sample Rec'd Date:	04/03/20
ISO/IEC 17025:2005 Standard	Page 1 of 1

MICROBIOLOGICAL CERTIFICATE OF ANALYSIS

Sample Description: *Natural Tincture 1350 mg CBD*
Sample Batch/Lot No.: 200331A
ACCU Laboratory Ref.: 0732226
Purchase Order No.: N/A
Test Method: USP
Notes: N/A

Analysis:

Results:

Total Plate Count:	<10 CFU / g
Yeast & Mold Count:	<10 CFU / g
Bile-Tolerant g- Bacteria (coliforms):	Negative
<i>Escherichia coli</i> :	Negative
<i>Salmonella</i> :	Negative

Approved By: _____

Vano Baghdasarian, Laboratory Director

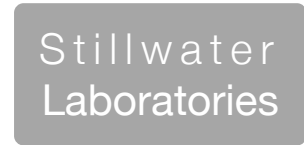
The results of this test relate only to the samples tested. This test report shall not be reproduced except in full, without written approval of the lab. ACCU Labs shall have no liability to anyone with respect to any interpretations or uses of the COA report, decisions made, or actions taken as a result of or based on the data reported.
Abbreviations: g -: gram negative; g +B: gram positive Bacilli; g +C: gram positive Cocci; TPC: Total Plate Count; TNTC: Too Numerous to Count

Document Information

File Name and Version: LF-510-01 Certificate of Analysis - V. Micro v.02 | Effective Date: 07/25/19 | Status: Approved by Vano Baghdasarian



total cannabinoids	Δ9-THC	THCa	total THC
1413.1 mg	0 mg	0 mg	0 mg
per	CBD	CBDa	total CBD
30ml	1375.9 mg	0 mg	1375.9 mg

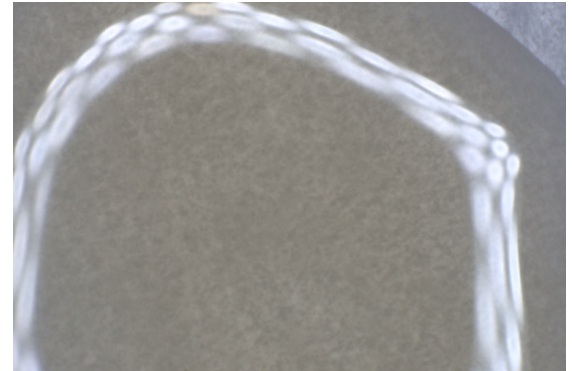


<https://portal.a2la.org/scopepdf/4961-01.pdf>

Sample Handling

test ID	sample wt	27.0 g
type	tincture	order 6841
lab ID	OCP50	sample date 3/18/2020
unit	30ml	unit weight 27.0 g

tincture



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	30ml	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0 mg	± 0.44 mg	terpenes not tested / not required						
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0%	0 mg	± 0.44 mg							
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0%	0 mg	± 0.44 mg							
tetrahydrocannabivarin (THCv)	0%	0 mg	± 0.44 mg							
cannabidiolic acid (CBDa)	0%	0 mg	± 0.44 mg							
cannabidiol (CBD)	5.09%	1375.9 mg	± 1.28 mg							
cannabidivarin (CBDv)	0%	0 mg	± 0.44 mg							
cannabigerolic acid (CBGa)	0%	0 mg	± 0.44 mg							
cannabigerol (CBG)	.14%	37.2 mg	± 0.49 mg							
cannabinol (CBN)	0%	0 mg	± 0.44 mg							
cannabichromene (CBC)	0%	0 mg	± 0.44 mg							

Solvents	MT limit	OCP50	LOQ	Pesticides (MT)	MT limit	OCP50	LOQ	Pesticides (other)	OCP50	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	clofentezine	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	fipronil	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	OCP50	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	OCP50	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]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. ••• Decarboxyated cannabinoid concentration is calculated from the equation XXX_{total} = 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_g² = Σ(∂f/∂i)²s_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

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director
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total cannabinoids 88.5% CBD decarb total 84.61% Δ9-THC ND

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 date 12/4/19 2:46 PM order 6070 labID 9MD44 weight 5.4 g source

Table with 3 columns: Methods, method, equipment. Lists various testing methods like weights, potency, terpenes, pesticides, etc.



concentrate

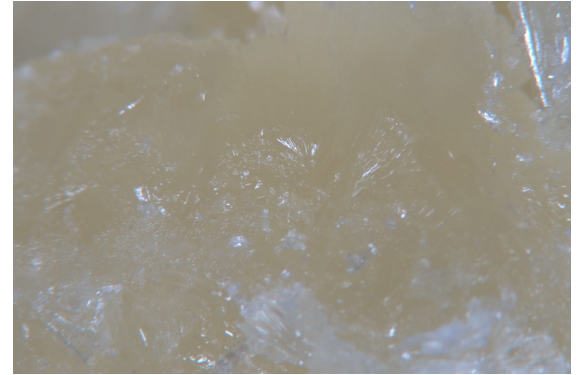


Table with 6 columns: Potency, Terpenes, and total terpenes. Lists compounds like tetrahydrocannabinolic acid, beta-myrcene, camphene, etc., with their respective percentages and estimated errors.

Table with 10 columns: Solvents, Pesticides (MT), Pesticides (other), and Toxic Metals. Lists various substances and their test results (PASS, FAIL, etc.) against MT limits and LOQ.

Table with 4 columns: Microbial, MT limit, 9MD44, LOQ. Lists E. coli, Salmonella sp., molds, Aflatoxin, and Ochratoxin with their respective test results.

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.

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

Table with 2 columns: Pesticides (other) and results. Lists various pesticides like acephate, acetamiprid, aldicarb, etc., all with results of 0.00 ppm or <10ppb.