

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels
PRODUCT STRENGTH: 25 mg
FILL LOT NUMBER: [GCND2520-05 / 20328A](#)
SOFTGEL LOT NUMBER: 21049A
BEST BY DATE: 04/13/2022

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	N/A	PASS
Appearance	SOP-100	Dry, ovoid softgel capsules in container with lid and shrinkband	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink band 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	23.75-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	27.5 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 - Total Plate Count	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial -Yeast and Mold	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Coliforms and bacteria (including Ecoli and Salmonella)	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: Kei Horikawa 02/25/2021
 Kei Horikawa Date
 Quality Control Manager

TOSM-069-GK-1.GCND2520-05

 Sample ID: 2011CSALA2982.7534
 Matrix: Concentrates & Extracts
 Type: Other
 Sample Size: 1 units
 Batch Size:
 Batch#:

 Produced: N/A
 Collected: 11/05/2020
 Received: 11/05/2020
 Completed: 11/11/2020


ND

Total THC

27.4953
mg/serving

Total CBD

28.1495
mg/serving

Total Cannabinoids

Cannabinoids
Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	mg/serving	mg/g
CBD	0.0059	0.018	27.4953	65.4650
CBDV	0.0042	0.0126	0.6542	1.5576
CBC	0.0009	0.0027	ND	ND
CBDa	0.0012	0.0037	ND	ND
CBG	0.0047	0.0143	ND	ND
CBGa	0.0016	0.005	ND	ND
CBN	0.0014	0.0041	ND	ND
THCa	0.002	0.006	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Δ9-THC	0.0038	0.0115	ND	ND
Total			28.1495	67.0226

1 serving = 1 soft gel capsule, 0.42 grams; 30.0 servings per package; 0.0 mg/package Total THC; 824.8588 mg/package Total CBD;

Date Tested: 11/09/2020

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa + 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


 ISO / IEC 17025:2017 ACCREDITED
 LABORATORY
 Accreditation No. 73653



 Douglas Duncan
 Lab Director
 11/11/2020



 Musa Aman
 COA Review
 11/11/2020

TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix: Concentrates & Extracts

Type: Other

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 11/05/2020

Received: 11/05/2020

Completed: 11/11/2020

Pesticides

Pass

Testing method: LCMS & GCMS-SOP 301 and 302

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.0009	0.003	0.1	ND	Pass	Fludioxonil	0.0143	0.048	0.1	ND	Pass
Acephate	0.005	0.017	0.1	ND	Pass	Hexythiazox	0.0237	0.079	0.1	ND	Pass
Acequinocyl	0.0193	0.064	0.1	ND	Pass	Imazalil *	0.0077	0.026	0.0077	ND	Pass
Acetamiprid	0.0073	0.024	0.1	ND	Pass	Imidacloprid	0.0053	0.018	5	ND	Pass
Aldicarb *	0.0094	0.031	0.0094	ND	Pass	Kresoxim Methyl	0.0182	0.061	0.1	ND	Pass
Azoxystrobin	0.015	0.05	0.1	ND	Pass	Malathion	0.015	0.05	0.5	ND	Pass
Bifenazate	0.0129	0.043	0.1	ND	Pass	Metaxyl	0.0076	0.025	2	ND	Pass
Bifenthrin	0.029	0.097	3	ND	Pass	Methiocarb *	0.0103	0.034	0.0103	ND	Pass
Boscalid	0.0172	0.058	0.1	ND	Pass	Methomyl	0.0109	0.036	1	ND	Pass
Captan	0.036	0.12	0.7	ND	Pass	Methyl Parathion *	0.0091	0.0303	0.0091	ND	Pass
Carbaryl	0.0542	0.181	0.5	ND	Pass	Mevinphos *	0.0041	0.014	0.0041	ND	Pass
Carbofuran *	0.0077	0.026	0.0077	ND	Pass	Myclobutanil	0.01	0.033	0.1	ND	Pass
Chlorantraniliprole	0.0095	0.032	10	ND	Pass	Naled	0.0107	0.036	0.1	ND	Pass
Chlordane *	0.0055	0.0182	0.0055	ND	Pass	Oxamyl	0.0071	0.024	0.5	ND	Pass
Chlorfenapyr *	0.0048	0.0159	0.0048	ND	Pass	Paclobutrazol *	0.0092	0.031	0.0092	ND	Pass
Chlorpyrifos *	0.0197	0.066	0.0197	ND	Pass	Pentachloronitrobenzene	0.0084	0.0279	0.1	ND	Pass
Clofentezine	0.0216	0.072	0.1	ND	Pass	Permethrin	0.0142	0.048	0.5	ND	Pass
Coumaphos *	0.0196	0.065	0.0196	ND	Pass	Phosmet	0.0138	0.046	0.1	ND	Pass
Cyfluthrin	0.0107	0.036	2	ND	Pass	Piperonyl Butoxide	0.0156	0.052	3	ND	Pass
Cypermethrin	0.0105	0.035	1	ND	Pass	Prallethrin	0.018	0.06	0.1	ND	Pass
Daminozide *	0.0052	0.017	0.0052	ND	Pass	Propiconazole	0.013	0.043	0.1	ND	Pass
DDVP *	0.0081	0.027	0.0081	ND	Pass	Propoxur *	0.0097	0.033	0.0097	ND	Pass
Diazinon	0.0134	0.045	0.1	ND	Pass	Pyrethrins	0.0025	0.008	0.5	ND	Pass
Dimethoate *	0.0083	0.028	0.0083	ND	Pass	Pyridaben	0.0236	0.079	0.1	ND	Pass
Dimethomorph	0.0025	0.008	2	ND	Pass	Spinetoram	0.0042	0.014	0.1	ND	Pass
Ethoprophos *	0.0112	0.037	0.0112	ND	Pass	Spinosad	0.0002	0.001	0.1	ND	Pass
Etofenprox *	0.0247	0.082	0.0247	ND	Pass	Spiromesifen	0.0199	0.066	0.1	ND	Pass
Etoxazole	0.0269	0.09	0.1	ND	Pass	Spirotetramat	0.0068	0.023	0.1	ND	Pass
Fenhexamid	0.0215	0.072	0.1	ND	Pass	Spiroxamine *	0.0065	0.022	0.0065	ND	Pass
Fenoxycarb *	0.0186	0.062	0.0186	ND	Pass	Tebuconazole	0.0099	0.033	0.1	ND	Pass
Fenpyroximate	0.0253	0.084	0.1	ND	Pass	Thiacloprid *	0.0094	0.031	0.0094	ND	Pass
Fipronil *	0.0228	0.076	0.0228	ND	Pass	Thiamethoxam	0.005	0.017	5	ND	Pass
Flonicamid	0.0073	0.024	0.1	ND	Pass	Trifloxystrobin	0.0192	0.064	0.1	ND	Pass

Date Tested: 11/09/2020

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 Musa Aman
 COA Review
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TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix: Concentrates & Extracts

Type: Other

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 11/05/2020

Received: 11/05/2020

Completed: 11/11/2020

Residual Solvents

Testing method: HSGCMS-SOP 202

Pass

Analyte	LOD	LOQ	Limit	Results	Status
1,2-Dichloro-Ethane	µg/g 0.1	µg/g 0.4	µg/g 1	µg/g ND	Pass
Acetone	64.0	214.0	5000	ND	Pass
Acetonitrile	36.0	119.0	410	ND	Pass
Benzene	0.1	0.2	1	ND	Pass
Butane	42.0	141.0	5000	ND	Pass
Chloroform	0.1	0.4	1	ND	Pass
Ethanol	59.0	197.0	5000	334	Pass
Ethyl-Acetate	43.0	144.0	5000	ND	Pass
Ethylene Oxide	0.2	0.6	1	ND	Pass
Ethyl-Ether	40.0	134.0	5000	ND	Pass
Heptane	46.0	154.0	5000	ND	Pass
Isopropanol	41.0	138.0	5000	ND	Pass
Methanol	160.0	534.0	3000	ND	Pass
Methylene-Chloride	0.1	0.4	1	ND	Pass
n-Hexane	42.0	139.0	290	ND	Pass
Pentane	69.0	229.0	5000	ND	Pass
Propane	21.0	70.0	5000	ND	Pass
Toluene	47.0	156.0	890	ND	Pass
Trichloroethene	0.1	0.4	1	ND	Pass
Xylenes	86.0	287.0	2170	ND	Pass

Date Tested: 11/09/2020

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TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA2982.7534

Matrix: Concentrates & Extracts

Type: Other

Sample Size: 1 units

Batch Size:

Batch#:

Produced: N/A

Collected: 11/05/2020

Received: 11/05/2020

Completed: 11/11/2020

Traditional Microbials

Pass

Testing method: Petrifilm-SOP 402

Analyte	Limit	Results	Status
	cfu/g	cfu/g	
Enterobacter	ND	ND	Pass
Salmonella	ND	ND	Pass
E. Coli	ND	ND	Pass
Total aerobic plate count	< 1000	210	Pass
Total coliforms	ND	ND	Pass
Total Yeast & Mold	< 100	ND	Pass

Date Tested: 11/11/2020

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 11/11/2020

TOSM-069-GK-1.GCND2520-05

Sample ID: 2011CSALA3208.8077

Matrix: Other

Type: Other

Sample Size: 1 units

Batch Size:

Batch#:

Produced: 11/11/2020

Collected: 11/11/2020

Received: 11/11/2020

Completed: 11/12/2020



Summary

Pass

Not Tested Total Cannabinoids	Not Tested Pesticides	Not Tested Residual Solvents
Not Tested Microbials	Not Tested Mycotoxins	Not Tested Heavy Metals

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD		LOQ		Results	
	µg	%	µg	%	%	mg/g
β-Caryophyllene	0.005	0.0173	1.35	13.49		
Caryophyllene Oxide	0.029	0.0874	<LOQ	<LOQ		
α-Humulene	0.005	0.0173	0.08	0.76		
γ-Terpinene	0.005	0.0168	0.06	0.55		
Guaiol	0.011	0.0334	<LOQ	<LOQ		
Camphene	0.005	0.0163	ND	ND		
Eucalyptol	0.006	0.0175	ND	ND		
Geraniol	0.007	0.0205	ND	ND		
Isopulegol	0.009	0.0282	ND	ND		
Linalool	0.008	0.0228	ND	ND		
Ocimene	0.004	0.0109	ND	ND		
p-Cymene	0.005	0.0162	ND	ND		
Terpinolene	0.006	0.0168	ND	ND		
trans-Nerolidol	0.007	0.0219	ND	ND		
α-Bisabolol	0.01	0.0295	ND	ND		
α-Pinene	0.006	0.0175	ND	ND		
α-Terpinene	0.005	0.0165	ND	ND		
β-Myrcene	0.008	0.024	ND	ND		
β-Pinene	0.005	0.0147	ND	ND		
β-3-Carene	0.005	0.016	ND	ND		
δ-Limonene	0.005	0.0159	ND	ND		
Total			1.48	14.81		

Date Tested: 11/12/2020

NT Moisture <small>Moisture Analyzer SOP-103</small>	NT Water Activity <small>Water Activity Meter SOP-102</small>	NT Foreign Matter <small>Visual Inspection SOP-600</small>
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 Lab Director
 11/12/2020



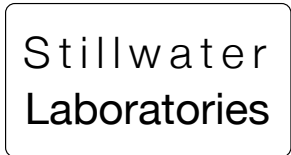
 Musa Aman
 COA Review
 11/12/2020



ISO/IEC 17025:2017



Certificate #4961.01



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

Sample Handling

test ID sample date 11/28/20 11:07 AM
order 9043 labID 0LW103 weight 21.1 g
source

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

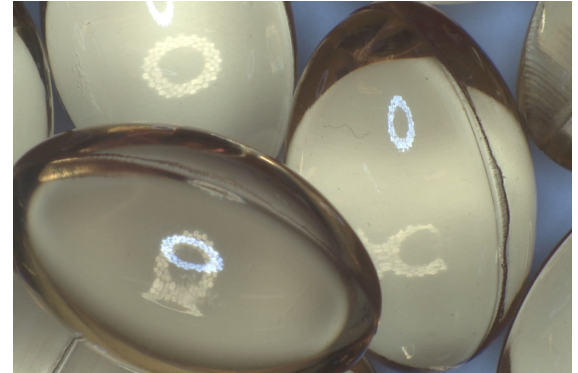


Table header for Potency and Terpenes with columns for %, estimated error, and %.

potency not tested

terpenes not tested / not required

Table header for Solvents, Pesticides (MT), and Pesticides (other) with columns for MT limit, 0LW103, and LOQ.

pesticides not tested / not required

not tested / not required

Table for Toxic Metals with columns for MT limit, 0LW103, and LOQ. Lists arsenic, cadmium, lead, and mercury.

Table for Microbial with columns for MT limit, 0LW103, and LOQ. Lists E. coli, Salmonella sp., and molds.

Comments

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:

Handwritten signature of Paula Kosted

Paula Kosted, PhD (Biochem)
Deputy Director
6073 US93N, Olney MT 59927
406-881-2019 rdb@stwlabs.com

Printed 12/3/2020 9:29 AM



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



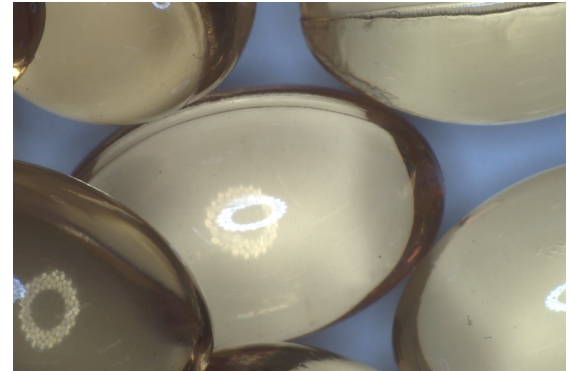
Stillwater Laboratories

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

Sample Handling

capsule

test ID	sample wt	19.8 g
type	order	9911
lab ID	sample date	2/23/2021
unit	unit weight	0.6 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-7.5.1.1 AriaMx/Hardy
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

Potency	per	bottle	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
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not tested

terpenes
not tested / not required

Solvents	MT limit	1BT01	LOQ	Pesticides (MT)	MT limit	1BT01	LOQ	Pesticides (other)	1BT01	LOQ
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pesticides
not tested / not required

not tested /
not required

Toxic Metals	MT limit	1BT01	LOQ
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metals
not tested / not required

Microbial	MT limit	1BT01	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

Comments

• 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)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:

6073 US93N, Olney MT 59927
406-881-2019 rdb@stwlabs.com