

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels
PRODUCT STRENGTH: 25 mg
FILL LOT NUMBER: 20280A
SOFTGEL LOT NUMBER: [GCND2520-04](#)
BEST BY DATE: 02/13/2022

Click on the links to view third party reports!

Physical Attributes

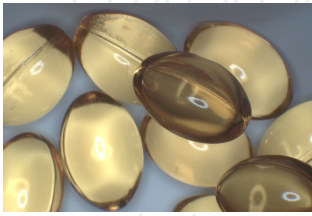
Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	N/A	PASS
Appearance	SOP-100	Dry, ovoid softgel capsules in container with lid and shrinkband	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink band intact	PASS
Secondary 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%)	28.2 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	LOQ	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 11/04/2020
 Kei Horikawa Date
 Quality Control Manager



GelCap 20280A

sample ID Lot# 20280A

analysis : 10/16/2020 12:00 AM

7USC1639 Certificate of Analysis

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

Stillwater Laboratories



certificate ID **OKM56**
order **8650**
test ID **20280A**

Inspection MSP-7.5.1.2

DESCRIPTION: Capsule sample (20.00g) received in a client-labelled bottle, by commercial courier. >20 per container. Labeled Lot# 20280A and sample tag 20280A.

Potency	per capsule	MSP-7.5.1.4	error
		LOD	LOQ (95%CI k=2)
total cannabinoids	28.2mg	0.37	1.10 ±1.33mg
total THC	ND	0.37	1.10 ±1.10mg
total CBD	28.2mg	0.37	1.10 ±1.33mg
tetrahydrocannabinolic acid (THCa)	ND	0.37	1.12 ±1.12mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.35	1.05 ±1.05mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.47	1.41 ±1.41mg
tetrahydrocannabivarin (THCv)	ND	0.39	1.17 ±1.17mg
cannabidiolic acid (CBDA)	ND	0.32	1.07 ±0.97mg
cannabidiol (CBD)	28.2mg	0.37	1.11 ±1.34mg
cannabidivarin (CBDv)	ND	0.37	1.11 ±1.11mg
cannabigerolic acid (CBGA)	ND	0.33	1.09 ±0.99mg
cannabigerol (CBG)	ND	0.40	1.20 ±1.20mg
cannabinol (CBN)	ND	0.20	0.61 ±0.61mg
cannabichromene (CBC)	ND	0.37	1.10 ±1.10mg

Microbial	MSP-7.5.1.10	limit	LOD	LOQ	error	status
E coli	ND	0CFU	0.1	0.2	±0.2CFU	PASS
Salmonella sp. molds	ND	0CFU	0.1	0.2	±0.2CFU	PASS
Ochratoxin A	ND	10000CFU	2.6	7.9	±7.9CFU	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.4	1.3	±1.3 ppb	PASS
	ND	20 ppb	0.4	1.3	±1.3 ppb	PASS

Metals	MSP-7.5.1.11	limit	LOD	LOQ	error	status
Arsenic	ND	1500 ppb	2.6	7.8	±7.8 ppb	PASS
Cadmium	ND	500 ppb	2.8	8.4	±8.4 ppb	PASS
Lead	ND	500 ppb	4.3	13.0	±13.0 ppb	PASS
Mercury	ND	300 ppb	2.2	6.6	±6.6 ppb	PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	status
Abamectin	ND	0.3 ppm	0.007	0.021	±0.021	PASS
Acephate	ND	5.0 ppm	0.007	0.022	±0.022	PASS
Acequinocyl	ND	4.0 ppm	0.006	0.019	±0.019	PASS
Acetamiprid	ND	5.0 ppm	0.005	0.015	±0.015	PASS
Aldicarb	ND	0.0 ppm	0.002	0.006	±0.006	PASS
Azoxystrobin	ND	40.0 ppm	0.002	0.006	±0.006	PASS
Bifenazate	ND	5.0 ppm	0.002	0.005	±0.005	PASS
Bifenthrin	ND	0.5 ppm	0.001	0.003	±0.003	PASS
Boscalid	ND	10.0 ppm	0.021	0.062	±0.062	PASS
Carbaryl	ND	0.5 ppm	0.008	0.025	±0.025	PASS
Carbofuran	ND	0.0 ppm	0.002	0.005	±0.005	PASS
Chloanthraniliprole	ND	40.0 ppm	0.020	0.059	±0.059	PASS
Chlorfenapyr	ND	0.0 ppm	0.005	0.016	±0.016	PASS
Chlorpyrifos	ND	0.0 ppm	0.041	0.123	±0.123	PASS

Pesticides	MSP-7.5.1.8	limit	LOD	LOQ	error	status
Clofentezine	ND	0.5 ppm	0.008	0.023	±0.023 ppm	PASS
Coumaphos	ND	0.0 ppm	0.005	0.016	±0.016 ppm	PASS
Cyfluthrin	ND	1.0 ppm	0.007	0.022	±0.022 ppm	PASS
Cypermethrin	ND	1.0 ppm	0.005	0.016	±0.016 ppm	PASS
Daminozide	ND	0.0 ppm	0.028	0.084	±0.084 ppm	PASS
Dichlorvos	ND	0.0 ppm	0.014	0.043	±0.043 ppm	PASS
Diazinon	ND	0.2 ppm	0.001	0.003	±0.003 ppm	PASS
Dimethoate	ND	0.0 ppm	0.002	0.006	±0.006 ppm	PASS
Etoxazole	ND	1.5 ppm	0.004	0.011	±0.011 ppm	PASS
Fenoxycarb	ND	0.0 ppm	0.004	0.011	±0.011 ppm	PASS
Fenpyroximate	ND	2.0 ppm	0.001	0.003	±0.003 ppm	PASS
Fipronil	ND	0.0 ppm	0.008	0.023	±0.023 ppm	PASS
Fonicamid	ND	2.0 ppm	0.099	0.297	±0.297 ppm	PASS
Fludioxonil	ND	30.0 ppm	0.007	0.020	±0.020 ppm	PASS
Hexythiazox	ND	2.0 ppm	0.010	0.029	±0.029 ppm	PASS
Imazalil	ND	0.0 ppm	0.007	0.020	±0.020 ppm	PASS
Imidacloprid	ND	3.0 ppm	0.001	0.004	±0.004 ppm	PASS
Malathion	ND	5.0 ppm	0.005	0.015	±0.015 ppm	PASS
Metaxalyl	ND	15.0 ppm	0.008	0.023	±0.023 ppm	PASS
Methiocarb	ND	0.0 ppm	0.004	0.011	±0.011 ppm	PASS
Methomyl	ND	0.1 ppm	0.006	0.018	±0.018 ppm	PASS
Methyl parathion	ND	0.0 ppm	0.001	0.003	±0.003 ppm	PASS
Mevinphos	ND	0.0 ppm	0.005	0.016	±0.016 ppm	PASS
Myclobutanil	ND	9.0 ppm	0.001	0.003	±0.003 ppm	PASS
Naled	ND	0.5 ppm	0.005	0.016	±0.016 ppm	PASS
Oxamyl	ND	0.2 ppm	0.002	0.007	±0.007 ppm	PASS
Paclobutrazol	ND	0.0 ppm	0.003	0.008	±0.008 ppm	PASS
Permethrin	ND	20.0 ppm	0.010	0.030	±0.030 ppm	PASS
Phosmet	ND	0.2 ppm	0.003	0.009	±0.009 ppm	PASS
Piperonylbutoxide	ND	8.0 ppm	0.010	0.031	±0.031 ppm	PASS
Prallethrin	ND	0.4 ppm	0.004	0.011	±0.011 ppm	PASS
Propiconazole	ND	20.0 ppm	0.004	0.011	±0.011 ppm	PASS
Propoxur	ND	0.0 ppm	0.006	0.017	±0.017 ppm	PASS
Pyrethrin	ND	1.0 ppm	0.003	0.008	±0.008 ppm	PASS
Pyridaben	ND	3.0 ppm	0.001	0.003	±0.003 ppm	PASS
Spinetoram	ND	3.0 ppm	0.003	0.010	±0.010 ppm	PASS
Spinosad	ND	3.0 ppm	0.007	0.020	±0.020 ppm	PASS
Spiromesifen	ND	12.0 ppm	0.003	0.009	±0.009 ppm	PASS
Spirotetramat	ND	13.0 ppm	0.002	0.007	±0.007 ppm	PASS
Spiroxamine	ND	0.0 ppm	0.001	0.003	±0.003 ppm	PASS
Tebuconazole	ND	2.0 ppm	0.005	0.015	±0.015 ppm	PASS
Thiacloprid	ND	0.1 ppm	0.001	0.003	±0.003 ppm	PASS
Thiamethoxam	ND	4.5 ppm	0.003	0.009	±0.009 ppm	PASS
Trifloxystrobin	ND	30.0 ppm	0.002	0.007	±0.007 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

Certified by:

Stillwater Laboratories Inc.
MT License L00001, L00007, L00008
6073 US93N Suite 5
Olney MT 59927
406-881-2019

Justin M Johnston
Deputy Director

Printed
11/4/2020 4:57 PM



ISO/IEC 17025:2017



Certificate #4961.01

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

* All testing was completed onsite at 6073 US93N, Olney MT ** Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{aliquot} / m_{dry}. Terpene concentration is calculated: [terpene] = (terpene mass)_{GCMS} / m_{dry}. ... Decarboxylated cannabinoid concentration is calculated 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; LOD is the limit of detection (3.3s), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula s_y² = Σ(d_i/b)²s_e² where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{c,LOQ} x s_y. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable, ‡ = decarbed



total cannabinoids	Δ9-THC	THCa	total THC
?	? . mg	? . mg	? . mg
per	CBD	CBDa	total CBD
	? . mg	? . mg	? . mg



ISO/IEC 17025:2017



Certificate #4961.01

Stillwater Laboratories



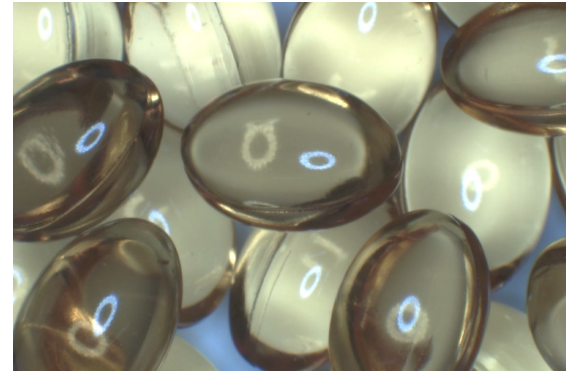
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Lot# 20280A

Sample Handling

gelcap

test ID	sample wt
type gelcap	order 8635
lab ID OKL53	sample date 10/15/2020
unit	unit weight



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	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
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not tested

terpenes
not tested / not required

Solvents	MT limit	OKL53	LOQ	Pesticides (MT)	MT limit	OKL53	LOQ	Pesticides (other)	OKL53	LOQ
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pesticides
not tested / not required

not tested /
not required

Toxic Metals	MT limit	OKL53	LOQ
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metals
not tested / not required

Microbial	MT limit	OKL53	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:

Kyle Larson, MSc (Biology)
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Softgel 25mg GCND

Certificate of Analysis



total cannabinoids	Δ^9 -THC	THCa	total THC
24 mg	0.00 mg	0.00 mg	0.00 mg
per	CBD	CBDa	total CBD
capsule	23.8 mg	0.00 mg	23.8 mg

Lot# GCND2520-04

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

gelcap

test ID	sample wt	5.7 g
type	order	8264
lab ID	sample date	9/3/2020
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 RTPCR
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030



Potency	per capsule	estimated error	Terpenes	%	estimated error	%	estimated error	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	0.00 mg	terpenes not tested / not required						
Δ^9 -tetrahydrocannabinol (Δ^9 THC)	0%	0.00 mg							
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	0%	0.00 mg							
tetrahydrocannabivarin (THCv)	0%	0.00 mg							
cannabidiolic acid (CBDa)	0%	0.00 mg							
cannabidiol (CBD)	3.7%	23.8 mg							
cannabidivarin (CBDv)	0%	0.00 mg							
cannabigerolic acid (CBGa)	0%	0.00 mg							
cannabigerol (CBG)	0%	0.00 mg							
cannabinol (CBN)	0%	0.00 mg							
cannabichromene (CBC)	0%	0.00 mg							

Pesticides (MT)

MT limit	0JC18	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
diaminozide	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)

0JC18	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
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	0JC18	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	0JC18	LOQ
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb <20 ppb
Ochratoxin A	20 ppb	0 ppb <20 ppb

microbial not tested

Comments

-Potency repeated with similar 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}. 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)² s_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

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