

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels
PRODUCT STRENGTH: 10 mg
LOT NUMBER: 20252A
BEST BY DATE: 02/05/2022
SOFTGEL LOT NUMBER: GC1020-07

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 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
Potency - Total CBD	SOP-111	9.5-12.5 mg CBD LOQ**: 10 PPM† (0.001%)	<u>10.13 mg</u>	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<u>ND</u>	PASS
FL Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Softgels, Oregon Action limits apply	<u>ND</u>	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	<u>Below LOD</u>	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	<u>Below LOD</u>	PASS
Microbial - Aspergillus	SOP-111	Complies with USP 61/62	<u>Below LOD</u>	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	<u>ND</u>	PASS

* Level of Quantitation, † Parts Per Million

Quality Certified by: Kei Horikawa 10/12/2020
 Kei Horikawa Date
 Quality Control Manager



total cannabinoids	Δ^9 -THC	THCa	total THC
10 mg	0.00 mg	0.00 mg	0.00 mg
per capsule	CBD	CBDa	total CBD
	10.13 mg	0.00 mg	10.13 mg

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 wt	18.9 g
type	capsule	order 8233
lab ID	0JA37	sample date 8/31/2020
unit	capsule	unit weight 0.7 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

capsule



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		\pm 0.01 mg					
Δ^8 -tetrahydrocannabinol (Δ^8 THC)	0%	0.00 mg		\pm 0.01 mg					
tetrahydrocannabivarin (THCv)	0%	0.00 mg		\pm 0.01 mg					
cannabidiolic acid (CBDa)	0%	0.00 mg		\pm 0.01 mg					
cannabidiol (CBD)	1.49%	10.13 mg		\pm 0.08 mg					
cannabidivarin (CBDv)	0%	0.00 mg		\pm 0.01 mg					
cannabigerolic acid (CBGa)	0%	0.00 mg		\pm 0.01 mg					
cannabigerol (CBG)	0%	0.00 mg		\pm 0.01 mg					
cannabinol (CBN)	0%	0.00 mg		\pm 0.01 mg					
cannabichromene (CBC)	0%	0.00 mg	\pm 0.01 mg						

Pesticides (MT)

MT limit	0JA37	LOQ	Pesticides (other)	0JA37	LOQ
	0.00 ppm	<10ppb	acephate	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	acetamiprid	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	aldicarb	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	azoxystrobin	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	boscalid	0.00 ppm	<10ppb
	0.00 ppm	<80ppb	carbaryl	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	carbofuran	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	chlorantraniliprole	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	chlorpyrifos	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	clofentezine	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	cypermethrin	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	diazinon	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	dichlorvos	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	dimethoate	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	etofenprox	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	fenpyroximate	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	fipronil	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	flonicamid	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	fludioxonil	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	hexythiazox	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	kresoxym-methyl	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	malathion	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	metalaxyl	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	methiocarb	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	methomyl	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	oxamyl	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	permethrins	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	phosmet	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	piperonyl butoxide	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	prallethrin	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	propiconazole	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	pyridaben	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	spiroxamine	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	tebuconazole	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	thiacloprid	0.00 ppm	<10ppb
	0.00 ppm	<10ppb	thiamethoxam	0.00 ppm	<10ppb

Microbial

microbial not tested

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

Toxic Metals

MT limit	0JA37	LOQ
arsenic	2 ppm	0.0 ppm
cadmium	4.1 ppm	0.0 ppm
lead	1.2 ppm	0.0 ppm
mercury	0.4 ppm	0.0 ppm

Comments

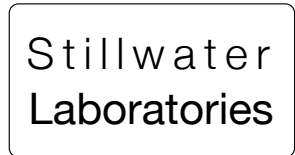
All testing was completed onsite at 6073 US93N, Olney MT. Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. Decarboxyted 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 = $\sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) \pm t_{CL90} x s_g. Sampling error is not

Certified by:

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



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



Lot# 20252A

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

Sample Handling

test ID	sample wt
type	order 8521
lab ID 0KB70	sample date 10/2/2020
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	0KB70	LOQ	Pesticides (MT)	MT limit	0KB70	LOQ	Pesticides (other)	0KB70	LOQ
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pesticides
not tested / not required

not tested /
not required

Toxic Metals	MT limit	0KB70	LOQ
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metals
not tested / not required

Microbial	MT limit	0KB70	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

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CONFIDENTIAL EXTRACTOR

CERTIFICATE OF ANALYSIS

PRODUCT NAME: 10mg CBD Soft Gels

PRODUCT CODE: GC-NO-10-A

LOT NUMBER: GC1020-07

DATE OF MANUFACTURE: 05AUG2020

(DDMMMYYYY)

EXPIRATION DATE: 05FEB2022

(Expiration date is 18 months
under sealed conditions.)

INGREDIENTS:

Composition of Fill: Polysorbate 80, Polysorbate 20, Fractionated Coconut Oil, Broad Spectrum
CBD Oil (0.0% THC), β -Caryophyllene.

Composition of the Shell: Bovine-derived Gelatin, Glycerin, Water

Parameter	Method ¹	Specification	Results
Appearance	QCU002	Oval soft gelatin capsule	Pass
Color		Light Translucent Yellow	Pass
Cannabinoids		LOQ (ppm)	Wt. (%)
CBD		20	1.546
CBD-A		20	< LOQ
Δ 9-THC		5	< LOQ
THC-A		5	< LOQ
CBN		5	< LOQ
CBN-A		5	< LOQ
CBG	QCU001 (UHPLC- DAD)	5	< LOQ
CBC		5	< LOQ
CBC-A		5	< LOQ
Δ 8-THC		5	< LOQ
CBDV		5	0.022
CBDV-A		5	< LOQ
THCV		5	< LOQ
Potency – Total CBD			NLT 95% of Labelled Claim for CBD
Total THC		0.0%	0.0%
Identity – CBD		Retention Time \pm 0.05min of Standard	0.01 min
Terpenes²	GC/FID & LC/MS	Refer to Oil Specification	Refer to Oil Specification
Pesticides²	LC/MS & GC/MS	Refer to Oil Specification	Refer to Oil Specification
Residual Solvents²	USP <467>	Refer to Oil Specification	Refer to Oil Specification
Elemental Impurities:²	USP <2232>	Refer to Oil Specification	Refer to Oil Specification
Microbial Limits:²	USP<2032>	Refer to Oil Specification	Refer to Oil Specification

Notes: ¹according to Folium Biosciences internal analytical methods, US Pharmacopeia or 3rd party contract laboratory method. ²Testing performed on bulk oil.
ND=Not Detected, LOQ=Limit of Quantification, LOD=Limit of Detection