

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels with Melatonin
PRODUCT STRENGTH: 25 mg CBD / 3 mg CBN / 3 mg Melatonin
LOT NUMBER: 21097C
BEST BY DATE: 09/19/2022
SOFTGEL LOT NUMBER: 21174

[*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 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	23.75-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	25.1 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-10008 : Product Specification for Softgels, Oregon Action Limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	BELOW LOD	PASS
Microbial - Yeast/Mold	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

Kei Horikawa
Quality Control Manager

04/19/2021

Date



Analytical Report

1309 Record Crossing Rd
Dallas, TX 75235

Report Date: 03/24/2021

Work Order: CHSG210322-047
Received Date: 03/22/2021
P.O. #:


Comments:

Sample Num: 21CH02870

Lot Number: 21174

Client Sample Num:
Comments:

<u>Analysis</u>	<u>Method Reference</u>	<u>Result</u>	<u>Unit</u>	<u>Analysis Date</u>	<u>Approval Date</u>
Melatonin	USP Assay Melatonin	3.19	mg/svg	03/24/2021	03/24/2021

Reviewed by: 
Cheri Turman, PhD., Vice President



BroadSpec Oil BSO5

Certificate of Analysis

total cannabinoids CBD THC
 total 81.5% 0.0%
 decarb total 81.48% 0%

86.6%
 Lot# C0201-001

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



ISO/IEC 17025:2017



Certificate #4961.01



**Stillwater
 Laboratories**

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

Sample Handling

test ID **9801.1.2** sample date 2/10/21 4:24 PM
 order **9801** labID **1BJ38** weight
 source 1Z600R3R0195585553



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-7.5.1.11	ICPMS2030

Potency

	%	estimated error
tetrahydrocannabinolic acid (THCa)	0%	± 0.02 %
Δ ⁹ -tetrahydrocannabinol (Δ ⁹ THC)	0%	± 0.02 %
Δ ⁸ -tetrahydrocannabinol (Δ ⁸ THC)	0%	± 0.02 %
tetrahydrocannabivarin (THCv)	0%	± 0.02 %
cannabidiolic acid (CBDa)	0%	± 0.02 %
cannabidiol (CBD)	81.48%	± 0.73 %
cannabidivarin (CBDv)	.39%	± 0.05 %
cannabigerolic acid (CBGa)	0%	± 0.02 %
cannabigerol (CBG)	4.77%	± 0.18 %
cannabinol (CBN)	0%	± 0.02 %
cannabichromene (CBC)	0%	± 0.02 %

Terpenes

	%	estimated error
terpenes		not tested / not required

Solvents

	MT limit	1BJ38	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
acetonitrile	NA	0 ppm	<10ppm
ethanol	NA	0 ppm	<10ppm
tetrahydrofuran	NA	0 ppm	<10ppm

Pesticides (MT)

	MT limit	1BJ38	LOQ
pesticides			not tested / not required

Pesticides (other)

	1BJ38	LOQ
pesticides		not tested / not required

Toxic Metals

	MT limit	1BJ38	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

Microbial

	MT limit	1BJ38	LOQ
<i>E. coli</i>	10 CFU	0 CFU	<10 CFU/g
<i>Salmonella</i> 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}. *** Decarboxyated 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_y² = Σ (∂f/∂i)² s_i² where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL,50} X s_y. Sampling error is not

Certified by:

Kyle Larson, MSc (Biology)

Deputy Director
 6073 US93N, Olney MT 59927
 406-861-2019 rdb@stwlabs.com

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certificate ID
1DH20

SG25M-21097C

7USC1639 Certificate of Analysis



rec'd 4/9/2021 4:10:57 PM

order 10391

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

Stillwater Laboratories



per

Microbial

	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	0CFU	0.1	0.2	±0.2CFU	PASS
Salmonella sp.	ND	0CFU	0.1	0.2	±0.2CFU	PASS
molds	ND	1000CFU	3.0	9.1	±9.1CFU	PASS

Metals

	MSP-7.5.1.11	limit	LOD	LOQ	error	result
Arsenic	NT	1500 ppb				NA
Cadmium	NT	500 ppb				NA
Lead	NT	500 ppb				NA
Mercury	NT	300 ppb				NA

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSC
Deputy Director

Jacob Harris
QA Manager



ISO/IEC 17025:2017



Certificate #4961.01

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

Stillwater Laboratories Inc.
MT License L0001, L0007
6073 US93N Suite 5, Olney MT 59927
406-881-2019

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)

• All testing was completed onsite at 6073 US93N, Olney MT • Potency (cannabinoid concentration) is calculated as: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/M_{dry} ••• Decarboxyated 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_e² = Σ (d/di)² s_e² where i is the contributor to error. The 95% confidence range is calculated from: (concentration) ± t_{CL90} x s_e. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

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