

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Softgels
PRODUCT STRENGTH: 25 mg
FILL LOT NUMBER: 21147A
SOFTGEL LOT NUMBER: **21204**
BEST BY DATE: 04/01/2023

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%)	29.1 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:


 Kayla Kolber
 Quality Assurance Technician

06/01/2021

Date

Certificate of Analysis

Product Name: Nano Softgels 25mg	Product No. 20-002
	Country of Origin: USA
Lot No.: 21204	Serving Size: 1 softgel
	Manufacture Date: 04/01/2021
Product Packaging: Gellcaps in bottle	Report Date: 04/13/2021

Analyte	Test Method	Acceptable Limit	Test Results
Physical			
Appearance	Visual	Gel cap	Conforms
Color	Visual	Translucent	Conforms
Potency			
Total Cannabinoids	MSP-7.3.1.5	NLT 25 mg/capsule	30 mg/capsule
Total THC (delta 9 THC and THC-A)	MSP-7.3.1.5	0.1% w/w	None detected
Impurities			
Pesticides	MSP-7.5.1.6	Below action level limits	Conforms
Solvents	MSP-7.5.1.6	Below action level limits	Conforms
Microbiological Pathogens			
Escherichia coli	MSP-7.5.1.1	Absent/10 g	None detected
Salmonella	MSP-7.5.1.1	Absent /10 g	None detected
Yeasts & Molds	MSP-7.5.1.1	NMT 100 cfu/g	0 cfu/g
Ochratoxin A	MSP-7.5.1.1	None detected	None detected
Aflatoxins	MSP-7.5.1.1	None detected	None detected
Heavy Metals			
Arsenic	MSP-7.5.1.1	NMT 1.5 ppm	None detected
Cadmium	MSP-7.5.1.1	NMT 0.3 ppm	None detected
Lead	MSP-7.5.1.1	NMT 1.0 ppm	None detected
Mercury	MSP-7.5.1.1	NMT 0.5 ppm	None detected

Quality Control: 

Date: 04/13/2021

Quality Assurance: 

Date: 04/13/2021



rec'd 4/2/2021 12:49:29 PM

order 10311

total
cannabinoids

30.0mg

per

gelcap

THC± ND

CBD± 29.1mg

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

Potency	per	gelcap	MSP-7.5.1.4	LOD	LOQ	error	result
total cannabinoids			30.0mg	0.13	0.40	±0.64mg	
total THC±			ND	0.13	0.40	±0.40mg	
total THC (THC+THCa)			ND	0.13	0.40	±0.40mg	
total CBD±			29.1mg	0.13	0.40	±0.63mg	
total CBD (CBD+CBDA)			29.1mg	0.13	0.40	±0.63mg	
tetrahydrocannabinolic acid (THCa)			ND	0.13	0.40	±0.40mg	
Δ9-tetrahydrocannabinol (Δ9 THC)			ND	0.13	0.38	±0.38mg	
Δ8-tetrahydrocannabinol (Δ8 THC)			ND	0.17	0.51	±0.51mg	
tetrahydrocannabivarin (THCv)			ND	0.14	0.42	±0.42mg	
cannabidiolic acid (CBDA)			<LOQ	0.12	0.35	±0.35mg	
cannabidiol (CBD)			29.0mg	0.13	0.40	±0.63mg	
cannabidivarin (CBDv)			<LOQ	0.13	0.40	±0.40mg	
cannabigerolic acid (CBGA)			ND	0.12	0.36	±0.36mg	
cannabigerol (CBG)			0.7mg	0.04	0.11	±0.12mg	

Terpenes

caryophyllene
humulene
terpinolene
ocimene
beta pinene
alpha pinene
limonene
myrcene
linalool

total terpenes	0.380%
linalool	ND
β-myrcene	ND
D-limonene	ND
α-pinene	ND
β-pinene	ND
ocimene	ND
terpinolene	ND
α-humulene	0.020%
β-caryophyllene	0.354%
α-bisabolol	ND
camphene	ND
Δ3-carene	ND
caryophyllene oxide	ND
para-cymene	ND
eucalyptol	ND
geraniol	ND
guaiol	<LOQ

Microbial

	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	0CFU	0.01	0.1	±0.1CFU	PASS
Salmonella sp.	ND	0CFU	0.01	0.1	±0.1CFU	PASS
molds	ND	10000CFU	1.7	15.0	±5.0CFU	PASS
Ochratoxin A	ND	20 ppb	0.3	0.8	±0.8 ppb	PASS
Aflatoxin B1B2G1G2	ND	20 ppb	0.3	0.8	±0.8 ppb	PASS

Solvents

	MSP-7.5.1.7	limit	LOD	LOQ	error	result
Acetone	<LOQ	5000 ppm	0.7	2.0	±2.1 ppm	PASS
Acetonitrile	ND	410 ppm	0.6	1.8	±1.8 ppm	PASS
Benzene	ND	0 ppm	0.0	0.1	±0.1 ppm	PASS
Butane	ND	5000 ppm	1.4	4.2	±4.2 ppm	PASS
Chloroform	ND	0 ppm	0.1	0.2	±0.2 ppm	PASS
Cyclohexane	ND	0 ppm	0.5	1.6	±1.6 ppm	PASS
Ethanol	2 ppm	10000 ppm	0.7	2.1	±2.2 ppm	PASS
Heptane	ND	5000 ppm	0.4	1.2	±1.2 ppm	PASS
Hexane	ND	290 ppm	0.5	1.6	±1.6 ppm	PASS
Isopropyl alcohol	<LOQ	5000 ppm	0.6	1.9	±1.9 ppm	PASS
Methanol	ND	3000 ppm	0.5	1.6	±1.6 ppm	PASS
Pentane	ND	5000 ppm	0.2	0.6	±0.6 ppm	PASS
Propane	ND	5000 ppm	0.5	1.6	±1.6 ppm	PASS
Toluene	ND	890 ppm	0.3	0.9	±0.9 ppm	PASS
Xylenes	ND	2170 ppm	0.3	1.0	±1.0 ppm	PASS

Metals

	MSP-7.5.1.11	limit	LOD	LOQ	error	result
Arsenic	ND	1500 ppb	2.8	8.5	±8.5 ppb	PASS
Cadmium	ND	500 ppb	3.0	9.1	±9.1 ppb	PASS
Lead	ND	500 ppb	4.7	14.2	±14.2 ppb	PASS
Mercury	ND	300 ppb	2.4	7.1	±7.1 ppb	PASS

Pesticides

	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Pyrethrin	ND	1.00 ppm	0.002	0.005	±0.005 ppm	PASS
Pyridaben	ND	3.00 ppm	0.001	0.002	±0.002 ppm	PASS
Spinetoram	ND	3.00 ppm	0.002	0.006	±0.006 ppm	PASS
Spinosad	ND	3.00 ppm	0.004	0.013	±0.013 ppm	PASS
Spiromesifen	ND	12.00 ppm	0.002	0.006	±0.006 ppm	PASS
Spirotetramat	ND	13.00 ppm	0.001	0.004	±0.004 ppm	PASS
Spiroxamine	ND	0.00 ppm	0.001	0.002	±0.002 ppm	PASS
Tebuconazole	ND	2.00 ppm	0.003	0.010	±0.010 ppm	PASS
Thiacloprid	ND	0.10 ppm	0.001	0.002	±0.002 ppm	PASS
Thiamethoxam	ND	4.50 ppm	0.002	0.006	±0.006 ppm	PASS
Trifloxystrobin	ND	30.00 ppm	0.001	0.004	±0.004 ppm	PASS

Pesticides

	MSP-7.5.1.8	limit	LOD	LOQ	error	result
Abamectin	ND	0.30 ppm	0.005	0.014	±0.014 ppm	PASS
Acephate	ND	5.00 ppm	0.005	0.014	±0.014 ppm	PASS
Acequinocyl	ND	4.00 ppm	0.004	0.012	±0.012 ppm	PASS
Acetamiprid	ND	5.00 ppm	0.003	0.010	±0.010 ppm	PASS
Aldicarb	ND	0.00 ppm	0.001	0.004	±0.004 ppm	PASS
Azoxystrobin	ND	40.00 ppm	0.001	0.004	±0.004 ppm	PASS
Bifenazate	ND	5.00 ppm	0.001	0.003	±0.003 ppm	PASS
Bifenthrin	ND	0.50 ppm	0.001	0.002	±0.002 ppm	PASS
Boscalid	ND	10.00 ppm	0.013	0.039	±0.039 ppm	PASS
Carbaryl	ND	0.50 ppm	0.005	0.015	±0.015 ppm	PASS
Carbofuran	ND	0.00 ppm	0.001	0.003	±0.003 ppm	PASS
Chloanthraniliprole	ND	40.00 ppm	0.012	0.037	±0.037 ppm	PASS
Chlorfenapyr	ND	0.00 ppm	0.003	0.010	±0.010 ppm	PASS
Chlorpyrifos	ND	0.00 ppm	0.026	0.078	±0.078 ppm	PASS
Clofentazine	ND	0.50 ppm	0.005	0.014	±0.014 ppm	PASS
Coumaphos	ND	0.00 ppm	0.003	0.010	±0.010 ppm	PASS
Cyfluthrin	ND	1.00 ppm	0.005	0.014	±0.014 ppm	PASS
Cypermethrin	ND	1.00 ppm	0.003	0.010	±0.010 ppm	PASS
Daminozide	ND	0.00 ppm	0.018	0.053	±0.053 ppm	PASS
Dichlorvos	ND	0.00 ppm	0.009	0.027	±0.027 ppm	PASS
Diazinon	ND	0.20 ppm	0.001	0.002	±0.002 ppm	PASS
Dimethoate	ND	0.00 ppm	0.001	0.004	±0.004 ppm	PASS
Etoazoxole	ND	1.50 ppm	0.002	0.007	±0.007 ppm	PASS
Fenoxycarb	ND	0.00 ppm	0.002	0.007	±0.007 ppm	PASS
Fenpyroximate	ND	2.00 ppm	0.001	0.002	±0.002 ppm	PASS
Fipronil	ND	0.00 ppm	0.005	0.014	±0.014 ppm	PASS
Flonicamid	ND	2.00 ppm	0.063	0.188	±0.188 ppm	PASS
Fludioxonil	ND	30.00 ppm	0.004	0.012	±0.012 ppm	PASS
Hexythiazox	ND	2.00 ppm	0.001	0.002	±0.002 ppm	PASS
Imazalil	ND	0.00 ppm	0.004	0.012	±0.012 ppm	PASS
Imidacloprid	ND	3.00 ppm	0.001	0.002	±0.002 ppm	PASS
Malathion	ND	5.00 ppm	0.003	0.010	±0.010 ppm	PASS
Metalaxyl	ND	15.00 ppm	0.005	0.014	±0.014 ppm	PASS
Methiocarb	ND	0.00 ppm	0.002	0.007	±0.007 ppm	PASS
Methomyl	ND	0.10 ppm	<0.001	0.001	±0.001 ppm	PASS
Methyl parathion	ND	0.00 ppm	0.001	0.002	±0.002 ppm	PASS
Mevinphos	ND	0.00 ppm	0.003	0.010	±0.010 ppm	PASS
Myclobutanil	ND	9.00 ppm	0.001	0.002	±0.002 ppm	PASS
Naled	ND	0.50 ppm	0.003	0.010	±0.010 ppm	PASS
Oxamyl	ND	0.20 ppm	0.001	0.004	±0.004 ppm	PASS
Paclobutrazol	ND	0.00 ppm	0.002	0.005	±0.005 ppm	PASS
Permethrin	ND	20.00 ppm	0.006	0.019	±0.019 ppm	PASS
Phosmet	ND	0.20 ppm	0.002	0.006	±0.006 ppm	PASS
Piperonylbutoxide	ND	8.00 ppm	0.006	0.019	±0.019 ppm	PASS
Prallethrin	ND	0.40 ppm	0.002	0.007	±0.007 ppm	PASS
Propiconazole	ND	20.00 ppm	0.002	0.007	±0.007 ppm	PASS
Propoxur	ND	0.00 ppm	0.004	0.011	±0.011 ppm	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Justin M Johnston
Deputy Director

Jacob Harris
QA Manager
<https://portal.a2la.org/scopepdf/4961-01.pdf>

Stillwater Laboratories Inc.
MT License L0001, L00007
6073 US93N Suite 5, Olney MT 59927
406-881-2019

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020HS20), 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: $[\text{cannabinoid}] = [\text{cannabinoid}]_{\text{HPLC}} \times \text{volume}_{\text{addition}} / \text{m}_{\text{dry}}$... Decarboxylated cannabinoid concentration is calculated $XX_{\text{total}} = 0.877 \times XXX_{\text{a}} + XXX$... 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 $s_p^2 = \sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: $(\text{concentration}) \pm t_{0.95} \times s_p$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

Printed 4/13/2021 12:47 PM

certificate ID

1EV80**SG25**

21147A

rec'd 5/28/2021 3:46:23 PM

order 10896



per

7USC1639 Certificate of Analysis

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

**Stillwater
Laboratories**

**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	10000CFU	2.7	8.2	±8.2CFU	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSc
Deputy Director



<https://customer.a2la.org/index.cfm?event=directory.detail&labPID=423635B2-5128-4C6F-871A-419DCF43B0D7>

Stillwater Laboratories Inc.
MT License L0001, L00007
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: $[\text{cannabinoid}] = [\text{cannabinoid}]_{\text{HPLC}} \times \text{volume}_{\text{dilution}} / \text{M}_{\text{dry}}$ • Decarboxyated cannabinoid concentration is calculated $\text{XXX}_{\text{total}} = 0.877 \times \text{XXXa} + \text{XXX}$ • 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 $s_y^2 = \sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: $(\text{concentration}) \pm t_{\text{CL},90} \times s_y$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed

Printed 5/30/2021 1:01 PM