

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** CBD Softgels with Melatonin  
**PRODUCT STRENGTH:** 25 mg CBD / 3 mg CBN / 3 mg Melatonin  
**LOT NUMBER:** 21145A  
**BEST BY DATE:** 03/31/2023  
**SOFTGEL Bulk LOT NUMBER:** 21200

*\*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
<b>Potency - Total CBD</b>	SOP-111	23.75-31.25 mg CBD LOQ**: 10 PPM† (0.001%)	<b>27.0 mg</b>	PASS
<b>Potency - D9-THC</b>	SOP-111	None Detected LOQ: 10 PPM (0.001%)	<b>ND</b>	PASS
<b>Compliant Pesticide Panel</b>	SOP-111	WIP-10008 : Product Specification for Softgels, Oregon Action Limits apply	<b>ND</b>	PASS
<b>Microbial - Stec E.Coli</b>	SOP-111	Complies with USP 61/62	<b>BELOW LOD</b>	PASS
<b>Microbial - Salmonella</b>	SOP-111	Complies with USP 61/62	<b>BELOW LOD</b>	PASS
<b>Microbial - Yeast/Mold</b>	SOP-111	Complies with USP 61/62	<b>BELOW LOD</b>	PASS
<b>CA Compliant Heavy Metal Panel</b>	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	<b>ND</b>	PASS

\* Level of Quantitation, † Parts Per Million

Quality Certified by: Kayla Kolber 06/01/2021  
 Kayla Kolber Date  
 Quality Assurance Technician

# Certificate of Analysis

Product Name: Nano Sleep Softgels 25 mg	Product No.: 20-002
Lot No.: 21200	Country of Origin: USA
Product Packaging: Bottle	Serving Size: 1 softgel
	Manufacture Date: 04/01/2021
	Report Date: 04/22/2021

Analyte	Test Method	Acceptable Limit	Test Results
<b>Physical</b>			
Appearance	Visual	Gel cap	Conforms
Color	Visual	Translucent	Conforms
<b>Potency/Chemistry</b>			
Total Cannabinoids	MSP-7.3.1.5	NLT 25 mg/capsule	31 mg/capsule
Total THC (delta 9 THC and THC-A)	MSP-7.3.1.5	0.1% w/w	None detected
Melatonin	USP	NLT 3.00 mg/capsule	3.05 mg/capsule
<b>Impurities</b>			
Pesticides	MSP-7.5.1.6	Below action level limits	Conforms
Solvents	MSP-7.5.1.6	Below action level limits	Conforms
<b>Microbiological Pathogens</b>			
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
<b>Heavy Metals</b>			
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: 

Quality Assurance: 

Date: 04/22/2021

Date: 4/22/21

# Nano Organics Sleep 25mg

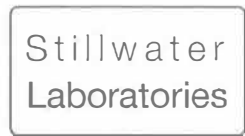


total cannabinoids	Δ9-THC	THCa	total THC
<b>31 mg</b>	0.00 mg	0.00 mg	0.00 mg
per capsule	CBD	CBDa	total CBD
	26.8 mg	0.14 mg	27.0 mg

Lot# 21200

# Certificate of Analysis

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



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

## Sample Handling

test ID	10303.1	sample wt	
type	gelcap	order	10303
lab ID	1DB36	sample date	4/1/2021
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/Hardy
solvents	MSP-7.5.1.6 QP2020/HS20
metals	MSP-7.5.1.1 ICPMS2030

- caryophyllene
- humulene
- terpinolene
- ocimene
- beta pinene
- alpha pinene
- limonene
- myrcene
- linalool

HERBAL



FLOREAL

gelcap



## Potency

per capsule	estimated error
tetrahydrocannabinolic acid (THCa) 0%	0.00 mg ± 0.01 mg
Δ <sup>9</sup> -tetrahydrocannabinol (Δ <sup>9</sup> THC) 0%	0.00 mg ± 0.01 mg
Δ <sup>8</sup> -tetrahydrocannabinol (Δ <sup>8</sup> THC) 0%	0.00 mg ± 0.01 mg
tetrahydrocannabivarin (THCv) 0%	0.00 mg ± 0.01 mg
cannabidiolic acid (CBDA) .02%	0.14 mg ± 0.02 mg
cannabidiol (CBD) 4.07%	26.8 mg ± 0.17 mg
cannabidivarin (CBDv) .06%	0.37 mg ± 0.02 mg
cannabigerolic acid (CBGA) 0%	0.00 mg ± 0.01 mg
cannabigerol (CBG) .09%	0.62 mg ± 0.03 mg
cannabinol (CBN) .52%	3.41 mg ± 0.06 mg
cannabichromene (CBC) 0%	0.00 mg ± 0.01 mg

## Terpenes

%	estimated error	%	estimated error	%	estimated error
β-myrcene 0.000%	± 0.0016%	camphene 0.002%	± 0.0017%	guaiol 0.003%	± 0.0017%
β-caryophyllene 0.354%	± 0.0063%	Δ3-carene 0.000%	± 0.0016%	β-bisabolol 0.001%	± 0.0017%
alpha-pinene 0.007%	± 0.0019%	a-terpinene 0.000%	± 0.0016%	eucalyptol 0.000%	± 0.0016%
β-pinene 0.001%	± 0.0017%	para-cymene 0.000%	± 0.0017%		
D-limonene 0.001%	± 0.0017%	g-terpinene 0.000%	± 0.0016%		
linalool 0.000%	± 0.0016%	(-)-isopulegol 0.000%	± 0.0016%	total terpenes	
ocimene 0.002%	± 0.0034%	geraniol 0.000%	± 0.0016%		
terpinolene 0.000%	± 0.0016%	cis-nerolidol 0.000%	± 0.0016%		
alpha-humulene 0.020%	± 0.0022%	trans-nerolidol 0.000%	± 0.0016%		

0.39%

## Solvents

MT limit	1DB36	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	1 ppm <10ppm
acetone	5,000	3 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	8 ppm <10ppm
tetrahydrofuran	NA	0 ppm <10ppm

## Pesticides (MT)

MT limit	1DB36	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
diaminazide	0.00 ppm	<10ppb
etoxazole	0.00 ppm	<10ppb
fenoxycarb	0.00 ppm	<10ppb
imazail	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)

1DB36	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
chloantraniliprole	0.00 ppm <10ppb
chlorpyrifos	0.00 ppm <10ppb
clofentazine	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	1DB36	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	1DB36	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	15 CFU <10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb <20 ppb
Ochratoxin A	20 ppb	0 ppb <20 ppb

## Comments

• All testing was completed onsite at 6073 US93N, Olney MT. • Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]<sub>HPLC</sub> × volume<sub>dilution</sub> / m<sub>dry</sub>. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)<sub>GCMS</sub> / m<sub>dry</sub>. • Decarboxyated cannabinoid concentration is calculated from the equation XXX<sub>total</sub> = 0.877 × XXX<sub>a</sub> + 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<sub>y</sub><sup>2</sup> = Σ(∂f/∂i)<sup>2</sup>s<sub>i</sub><sup>2</sup> where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t<sub>CL50</sub> × s<sub>y</sub>. Sampling error is not

Certified by:

Justin M Johnson  
Deputy Director  
6073 US93N, Olney MT 59927  
406-881-2019 rdb@stlwlabs.com

**Analytical Report**

1309 Record Crossing Rd  
Dallas, TX 75235

Report Date: 04/15/2021

**Work Order:** CHSG210406-017

**Received Date:** 04/06/2021

**P.O. #:**

**Comments:**

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**Sample Num:** 21CH03226

**Lot Number:** 21200

**Client Sample Num:** Nano Organics BS 25mg Sleep

**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	3.05	mg/svg	04/13/2021	04/15/2021

Reviewed by: 

Cheri Turman, PhD., Vice President

certificate ID  
**1EV32**

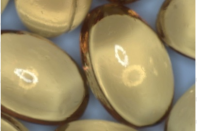
**SG25M**

# 7USC1639 Certificate of Analysis

21145A

rec'd 5/27/2021 2:41:26 PM

order 10878



per  
capsule

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

Stillwater  
Laboratories



per capsule

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	2.8	8.5	±8.5CFU	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:  $[\text{cannabinoid}] = [\text{cannabinoid}]_{\text{HPLC}} \times \text{volume}_{\text{dilution}} / \text{M}_{\text{dry}}$  • Decarboxyted 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  $s_{\text{e},i}^2 = \sum (\partial f / \partial i)^2 s_i^2$  where i is the contributor to error. The 95% confidence range is calculated from:  $(\text{concentration}) \pm t_{\text{CL},90} \times s_{\text{e}}$ . 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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