

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Nano CBD Softgels with Melatonin  
**PRODUCT STRENGTH:** 25 mg CBD / 3 mg Melatonin / 3mg CBN  
**TINCTURE BATCH:** 22BL06537- 220721A  
**BEST BY DATE:** 6/8/2024  
**HEMP EXTRACT LOT:** 22BL06537

### Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	No Odor	PASS
Appearance	Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Internal	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>	HPLC-UV DAD	*NTL 25mg / softgel	<b>29.25mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	<b>ND</b>	PASS
<b>Expanded Pesticide Panel</b>	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>ND</b>	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Absent</b>	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Absent</b>	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>2</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 <sup>3</sup> CFU/gram	<b>Below LOQ</b>	PASS
<b>Heavy Metals Panel</b>	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	<b>ND</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	<b>ND</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>ND</b>	PASS

\*Level of Quantitation, † Parts Per Million ‡ Part Per Billion CFU/g=Colony Forming Units per Gram  
 \*Nothing Less Than  
 10<sup>2</sup>=100 CFU  
 10<sup>3</sup>=1,000 CFU

Quality Certified



Name

7/26/22

Date

### Sleep Softgel

Batch ID or Lot Number: 22BL06537- 220721A	Test: <b>Potency</b>	Reported: <b>24Jun2022</b>	USDA License: N/A
Matrix: Unit	Test ID: T000211071	Started: 23Jun2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 21Jun2022	Status: N/A

### Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.101	0.314	ND	ND	# of Servings = 1, Sample Weight=0.45g
Cannabichromenic Acid (CBCA)	0.092	0.288	ND	ND	
Cannabidiol (CBD)	0.234	0.792	29.25	65.00	
Cannabidiolic Acid (CBDA)	0.240	0.812	ND	ND	
Cannabidivarin (CBDV)	0.055	0.187	0.070	0.10	
Cannabidivarinic Acid (CBDVA)	0.100	0.339	ND	ND	
Cannabigerol (CBG)	0.057	0.179	2.150	4.00	
Cannabigerolic Acid (CBGA)	0.239	0.746	ND	ND	
Cannabinol (CBN)	0.075	0.233	3.960	7.30	
Cannabinolic Acid (CBNA)	0.163	0.509	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.285	0.889	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.259	0.807	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.229	0.715	ND	ND	
Tetrahydrocannabivarin (THCV)	0.052	0.162	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.202	0.631	ND	ND	
<b>Total Cannabinoids</b>			<b>41.360</b>	<b>76.44</b>	
Total Potential THC			ND	ND	
Total Potential CBD			35.180	65.02	

### Final Approval



Daniel Weidensaul  
24Jun2022  
01:26:00 PM MDT

PREPARED BY / DATE



Jacob Miller  
24Jun2022  
01:28:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b4c969d6-cd64-4323-bc6f-4285941f02bb>

**Definitions**  
% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).  
Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDA \*(0.877)).

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.



Cell #4329.02  
b4c969d6cd644323bc6f4285941f02bb.1

## Sleep Softgel

Batch ID or Lot Number: 22BL06537- 220721A	Test: <b>Microbial Contaminants</b>	Reported: <b>27Jun2022</b>	USDA License: NA
Matrix: Finished Product	Test ID: T000211072	Started: 22Jun2022	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 21Jun2022	Status: NA

## Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

## Final Approval



Carly Bader  
25Jun2022  
12:50:00 PM MDT

PREPARED BY / DATE



Eden Thompson-Wright  
27Jun2022  
09:32:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/ec19b0f9-0d28-4cb0-bb41-98dd26383b42>

### Definitions

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU  
 CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection  
 ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation  
 STEC = Shiga Toxin-Producing E. coli

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Cert #4329.02  
ec19b0f90d284cb0bb4198dd26383b42.1

## BS 25mg + Melatonin

Batch ID or Lot Number: <b>22BL06314</b>	Test: <b>Mycotoxins</b>	Reported: <b>30Jun2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000211863	Started: 29Jun2022	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 24Jun2022	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.66 - 134.50	ND	N/A
Aflatoxin B1	1.04 - 33.53	ND	
Aflatoxin B2	1.36 - 33.27	ND	
Aflatoxin G1	1.14 - 33.17	ND	
Aflatoxin G2	1.49 - 33.56	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

## Final Approval

  
 Sam Smith  
 30Jun2022  
 03:25:00 PM MDT  
 PREPARED BY / DATE

  
 Jacob Miller  
 30Jun2022  
 03:29:00 PM MDT  
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/4024c153-0d64-4f3c-97b3-f4e1bb933c77>

**Definitions**  
 ND = None Detected (defined by dynamic range of the method)  
 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Cert #4329.02

CDPHE Certified  
 4024c1530d644f3c97b3f4e1bb933c77.1

## BS 25mg + Melatonin

Batch ID or Lot Number: <b>22BL06314</b>	Test: <b>Residual Solvents</b>	Reported: <b>27Jun2022</b>	USDA License: N/A
Matrix: Concentrate	Test ID: T000211861	Started: 27Jun2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 24Jun2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1364	ND	
Butanes (Isobutane, n-Butane)	141 - 2815	ND	
Methanol	54 - 1085	ND	
Pentane	78 - 1561	ND	
Ethanol	80 - 1605	ND	
Acetone	87 - 1748	ND	
Isopropyl Alcohol	88 - 1770	ND	
Hexane	5 - 108	ND	
Ethyl Acetate	88 - 1768	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	89 - 1788	ND	
Toluene	16 - 325	ND	
Xylenes (m,p,o-Xylenes)	121 - 2415	ND	

## Final Approval



Jacob Miller  
 28Jun2022  
 06:31:00 PM MDT

PREPARED BY / DATE



Daniel Weidensaul  
 28Jun2022  
 06:31:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/b4308c0e-5ab6-417b-bad0-318e12d9a5a0>

**Definitions**  
 ND = None Detected (defined by dynamic range of the method)  
 Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Cert #4329.02

CDPHE Certified  
 b4308c0e5ab6417bbad0318e12d9a5a0.1

### BS 25mg + Melatonin

Batch ID or Lot Number: <b>22BL06314</b>	Test: <b>Pesticides</b>	Reported: <b>01Jul2022</b>	USDA License: NA
Matrix: Concentrate	Test ID: T000211858	Started: 30Jun2022	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 24Jun2022	Status: NA

### Pesticides

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	306 - 2780	ND	Malathion	293 - 2714	ND
Acephate	41 - 2758	ND	Metalaxyl	49 - 2730	ND
Acetamiprid	43 - 2772	ND	Methiocarb	45 - 2812	ND
Azoxystrobin	47 - 2763	ND	Methomyl	42 - 2766	ND
Bifenazate	44 - 2736	ND	MGK 264 1	109 - 1647	ND
Boscalid	67 - 2718	ND	MGK 264 2	121 - 1152	ND
Carbaryl	38 - 2723	ND	Myclobutanil	48 - 2785	ND
Carbofuran	42 - 2701	ND	Naled	43 - 2785	ND
Chlorantraniliprole	54 - 2793	ND	Oxamyl	42 - 2761	ND
Chlorpyrifos	37 - 2809	ND	Pacllobutrazol	43 - 2735	ND
Clofentezine	280 - 2747	ND	Permethrin	298 - 2789	ND
Diazinon	283 - 2744	ND	Phosmet	40 - 2703	ND
Dichlorvos	280 - 2791	ND	Prophos	287 - 2772	ND
Dimethoate	45 - 2764	ND	Propoxur	42 - 2706	ND
E-Fenpyroximate	290 - 2692	ND	Pyridaben	299 - 2798	ND
Etofenprox	41 - 2790	ND	Spinosad A	36 - 2226	ND
Etoxazole	297 - 2747	ND	Spinosad D	48 - 496	ND
Fenoxycarb	36 - 2767	ND	Spiromesifen	235 - 2780	ND
Fipronil	22 - 2702	ND	Spirotetramat	293 - 2658	ND
Flonicamid	48 - 2771	ND	Spiroxamine 1	19 - 1200	ND
Fludioxonil	332 - 2811	ND	Spiroxamine 2	25 - 1585	ND
Hexythiazox	46 - 2810	ND	Tebuconazole	284 - 2785	ND
Imazalil	292 - 2777	ND	Thiacloprid	43 - 2757	ND
Imidacloprid	44 - 2773	ND	Thiamethoxam	42 - 2794	ND
Kresoxim-methyl	52 - 2813	ND	Trifloxystrobin	43 - 2746	ND

### Final Approval



Daniel Weidensaul  
01Jul2022  
12:16:00 PM MDT

PREPARED BY / DATE



Sam Smith  
01Jul2022  
12:23:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/03474c6e-f5ab-4a8d-afb9-cfc702e69cb6>

### Definitions

ND = None Detected (defined by dynamic range of the method)  
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range  
ppb = Parts Per Billion

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Cert #4329.02  
03474c6ef5ab4a8dafb9cfc702e69cb6.1

## BS 25mg + Melatonin

Batch ID or Lot Number: <b>22BL06314</b>	Test: <b>Heavy Metals</b>	Reported: <b>28Jun2022</b>	USDA License: NA
Matrix: Unit Co	Test ID: T000211860	Started: 27Jun2022	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 24Jun2022	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.08 - 7.90	ND	
Cadmium	0.08 - 7.87	ND	
Mercury	0.08 - 7.80	ND	
Lead	0.08 - 7.99	ND	

## Final Approval



Daniel Weidensaul  
29Jun2022  
08:05:00 PM MDT

PREPARED BY / DATE



Courtney Richards  
29Jun2022  
09:10:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/22d7332e-3323-474d-afd2-d7af9d97a46d>

### Definitions

ND = None Detected (defined by dynamic range of the method)  
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Cert #4329.02

CDPHE Certified  
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