

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels with Melatonin
PRODUCT STRENGTH: 25 mg CBD / 3 mg Melatonin / 3mg CBN
TINCTURE BATCH: 230605A
BEST BY DATE: 4/17/2025
HEMP EXTRACT LOT: 2304180

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	No Odor	PASS
Appearance	Joy Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Joy 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
Potency - Total CBD	HPLC-UV DAD	*NTL 25mg / softgel	29.6mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	ND	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ² CFU/gram	Below LOQ	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ² CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10 ³ CFU/gram	Below LOQ	PASS
Heavy Metals Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS

*Level of Quantitation, † Parts Per Million ‡ Part Per Billion CFU/g=Colony Forming Units per Gram
 *Nothing Less Than
 10²=100 CFU
 10³=1,000 CFU

Quality Certified


 Name _____

6/28/2023

Date

25mg CBD Softgel with Melatonin

Batch ID or Lot Number: 230605A	Test: Potency	Reported: 13May2023	USDA License: N/A
Matrix: Unit	Test ID: T000243633	Started: 11May2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 09May2023	Status: Active

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.057	0.171	ND	ND	# of Servings = 1 Sample Weight=0.55g
Cannabichromenic Acid (CBCA)	0.052	0.157	ND	ND	
Cannabidiol (CBD)	0.166	0.447	29.675	53.91	
Cannabidiolic Acid (CBDA)	0.170	0.458	ND	ND	
Cannabidivarin (CBDV)	0.039	0.106	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.071	0.191	ND	ND	
Cannabigerol (CBG)	0.032	0.097	1.702	3.09	
Cannabigerolic Acid (CBGA)	0.135	0.406	ND	ND	
Cannabinol (CBN)	0.042	0.127	3.385	6.15	
Cannabinolic Acid (CBNA)	0.092	0.277	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.160	0.484	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.146	0.440	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.129	0.389	ND	ND	
Tetrahydrocannabivarin (THCV)	0.029	0.088	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.114	0.343	ND	ND	
Total Cannabinoids			34.762	63.15	
Total Potential THC			ND	ND	
Total Potential CBD			29.675	53.91	

Final Approval



Karen Winternheimer
13May2023
12:32:00 PM MDT

PREPARED BY / DATE



Sam Smith
13May2023
12:34:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/3f98d180-1505-4991-8685-7ee48f465998>

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 SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., 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 SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02


CDPHE Certified
3f98d1801505499186857ee48f465998.1

25mg CBD Softgel with Melatonin

Batch ID or Lot Number: 230605A	Test: Pesticides	Reported: 18May2023	USDA License: NA
Matrix: Concentrate	Test ID: T000243634	Started: 17May2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 09May2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	287 - 2721	ND	Malathion	280 - 2746	ND
Acephate	42 - 2676	ND	Metalaxyl	42 - 2748	ND
Acetamiprid	40 - 2706	ND	Methiocarb	44 - 2778	ND
Azoxystrobin	40 - 2722	ND	Methomyl	41 - 2741	ND
Bifenazate	41 - 2732	ND	MGK 264 1	171 - 1688	ND
Boscalid	40 - 2717	ND	MGK 264 2	116 - 1076	ND
Carbaryl	38 - 2735	ND	Myclobutanil	48 - 2749	ND
Carbofuran	40 - 2721	ND	Naled	39 - 2757	ND
Chlorantraniliprole	35 - 2741	ND	Oxamyl	41 - 2735	ND
Chlorpyrifos	39 - 2776	ND	Pacllobutrazol	40 - 2710	ND
Clofentezine	282 - 2744	ND	Permethrin	298 - 2771	ND
Diazinon	275 - 2730	ND	Phosmet	42 - 2720	ND
Dichlorvos	256 - 2686	ND	Prophos	272 - 2737	ND
Dimethoate	40 - 2705	ND	Propoxur	42 - 2722	ND
E-Fenpyroximate	287 - 2791	ND	Pyridaben	303 - 2724	ND
Etofenprox	41 - 2746	ND	Spinosad A	33 - 2091	ND
Etoxazole	305 - 2725	ND	Spinosad D	70 - 671	ND
Fenoxycarb	10 - 2732	ND	Spiromesifen	287 - 2754	ND
Fipronil	31 - 2693	ND	Spirotetramat	267 - 2771	ND
Flonicamid	47 - 2768	ND	Spiroxamine 1	19 - 1199	ND
Fludioxonil	270 - 2725	ND	Spiroxamine 2	25 - 1549	ND
Hexythiazox	42 - 2755	ND	Tebuconazole	281 - 2741	ND
Imazalil	284 - 2751	ND	Thiacloprid	42 - 2674	ND
Imidacloprid	43 - 2757	ND	Thiamethoxam	40 - 2760	ND
Kresoxim-methyl	45 - 2766	ND	Trifloxystrobin	42 - 2709	ND

Final Approval



Karen Winternheimer
18May2023
06:53:00 AM MDT

PREPARED BY / DATE



Sam Smith
18May2023
06:56:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/ed847a67-2e08-4052-b43d-5cf467a335ab>

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
ed847a672e084052b43d5cf467a335ab.1


25mg CBD Softgel with Melatonin

Batch ID or Lot Number: 230605A	Test: Mycotoxins	Reported: 17May2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000243638	Started: 16May2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 09May2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.91 - 132.37	ND	N/A
Aflatoxin B1	0.98 - 33.60	ND	
Aflatoxin B2	0.98 - 33.86	ND	
Aflatoxin G1	1.04 - 33.44	ND	
Aflatoxin G2	1.08 - 34.19	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
17May2023
09:54:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
17May2023
09:56:00 AM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a51449ef-fec4-4db2-a5bc-0c2c82b634c1>

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
a51449efec44db2a5bc0c2c82b634c1.1

25mg CBD Softgel with Melatonin

Batch ID or Lot Number: 230506A	Test: Residual Solvents	Reported: 12May2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000243637	Started: 12May2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 09May2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	88 - 1759	ND	
Butanes (Isobutane, n-Butane)	181 - 3611	ND	
Methanol	53 - 1066	ND	
Pentane	89 - 1777	ND	
Ethanol	88 - 1751	ND	
Acetone	88 - 1767	ND	
Isopropyl Alcohol	90 - 1796	ND	
Hexane	5 - 107	ND	
Ethyl Acetate	90 - 1801	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	95 - 1899	ND	
Toluene	16 - 322	ND	
Xylenes (m,p,o-Xylenes)	118 - 2356	ND	

Final Approval



Karen Winternheimer
12May2023
01:23:00 PM MDT

PREPARED BY / DATE



Sam Smith
12May2023
01:25:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uiid/87a808e2-61f5-46f9-9fd5-43499bc06358>

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
87a808e261f546f99fd543499bc06358.1


25mg CBD Softgel with Melatonin

Batch ID or Lot Number: 230605A	Test: Heavy Metals	Reported: 16May2023	USDA License: NA
Matrix: Unit Co	Test ID: T000243636	Started: 15May2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS); Heavy Metals	Received: 09May2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.78	ND	
Cadmium	0.05 - 4.90	ND	
Mercury	0.05 - 4.85	ND	
Lead	0.01 - 1.44	ND	

Final Approval


 Sam Smith
 16May2023
 09:21:00 AM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 16May2023
 09:26:00 AM MDT
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1694cba9-a55b-456a-8b30-c02ab9c61591>

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
 1694cba9a55b456a8b30c02ab9c61591.1

25mg CBD Softgel with Melatonin

Batch ID or Lot Number: 230605A	Test: Microbial Contaminants	Reported: 09Jun2023	USDA License: N/A
Matrix: Finished Product	Test ID: T000245797	Started: 06Jun2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 06Jun2023	Status: Active

Microbial

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Brianne Maillot
09Jun2023
01:50:00 PM MDT

PREPARED BY / DATE



Eden Thompson-Wright
09Jun2023
02:44:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/5f64925c-ec41-4e58-891d-16aed7a79e9c>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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

CDPHE Certified
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