

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels with Melatonin
PRODUCT STRENGTH: 25 mg CBD / 3 mg Melatonin / 3mg CBN
TINCTURE BATCH: 240911A
BEST BY DATE: 4/30/2026
HEMP EXTRACT LOT: 24041801

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
Potency - Total CBD	HPLC-UV DAD	*NTL 25mg / softgel	28mg	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

9/19/24

Date

25mg Melatonin Softgels

Batch ID or Lot Number: 240911A	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 6
Reported: 30Apr2024	Started: 30Apr2024	Received: 26Apr2024	


Cannabinoids - Colorado Compliance


Test ID: T000278685

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.046	0.158	<LOQ	<LOQ	# of Servings = 1 Sample Weight=0.552g
Cannabichromenic Acid (CBCA)	0.042	0.144	ND	ND	
Cannabidiol (CBD)	0.145	0.426	28.719	52.07	
Cannabidiolic Acid (CBDA)	0.149	0.436	ND	ND	
Cannabidivarin (CBDV)	0.034	0.101	0.184	0.33	
Cannabidivarinic Acid (CBDVA)	0.062	0.182	ND	ND	
Cannabigerol (CBG)	0.026	0.090	2.050	3.72	
Cannabigerolic Acid (CBGA)	0.110	0.375	ND	ND	
Cannabinol (CBN)	0.034	0.117	3.307	6.00	
Cannabinolic Acid (CBNA)	0.075	0.256	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.131	0.446	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.119	0.405	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.105	0.359	ND	ND	
Tetrahydrocannabivarin (THCV)	0.024	0.082	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.093	0.317	ND	ND	
Total Cannabinoids			34.260	62.12	
Total Potential THC			ND	ND	
Total Potential CBD			28.719	52.07	

Final Approval


 Karen Winternheimer
 02May2024
 01:42:00 PM MDT
 PREPARED BY / DATE


 Phillip Travisano
 02May2024
 01:44:00 PM MDT
 APPROVED BY / DATE

25mg Melatonin Softgels

Batch ID or Lot Number: 240911A	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 6
Reported: 30Apr2024	Started: 30Apr2024	Received: 26Apr2024	

Pesticides


Test ID: T000278686

Methods: TM17

(LC-QQ LC MS/MS)

	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	254 - 2693	ND	Malathion	279 - 2683	ND
Acephate	40 - 2756	ND	Metalaxyl	40 - 2689	ND
Acetamiprid	37 - 2694	ND	Methiocarb	41 - 2740	ND
Azoxystrobin	43 - 2687	ND	Methomyl	37 - 2756	ND
Bifenazate	41 - 2679	ND	MGK 264 1	163 - 1640	ND
Boscalid	37 - 2738	ND	MGK 264 2	106 - 1093	ND
Carbaryl	40 - 2716	ND	Myclobutanil	42 - 2774	ND
Carbofuran	40 - 2713	ND	Naled	45 - 2668	ND
Chlorantraniliprole	36 - 2729	ND	Oxamyl	38 - 2750	ND
Chlorpyrifos	46 - 2784	ND	Paclobutrazol	40 - 2719	ND
Clofentezine	281 - 2757	ND	Permethrin	270 - 2774	ND
Diazinon	274 - 2701	ND	Phosmet	40 - 2557	ND
Dichlorvos	264 - 2713	ND	Prophos	288 - 2747	ND
Dimethoate	37 - 2714	ND	Propoxur	41 - 2721	ND
E-Fenpyroximate	257 - 2806	ND	Pyridaben	284 - 2801	ND
Etofenprox	41 - 2768	ND	Spinosad A	32 - 2096	ND
Etoxazole	286 - 2697	ND	Spinosad D	68 - 672	ND
Fenoxycarb	43 - 2663	ND	Spiromesifen	285 - 2747	ND
Fipronil	56 - 2801	ND	Spirotetramat	291 - 2781	ND
Flonicamid	40 - 2738	ND	Spiroxamine 1	15 - 1028	ND
Fludioxonil	313 - 2754	ND	Spiroxamine 2	23 - 1621	ND
Hexythiazox	42 - 2800	ND	Tebuconazole	274 - 2683	ND
Imazalil	276 - 2730	ND	Thiacloprid	40 - 2712	ND
Imidacloprid	43 - 2767	ND	Thiamethoxam	39 - 2752	ND
Kresoxim-methyl	41 - 2741	ND	Trifloxystrobin	42 - 2740	ND

Final Approval


 Karen Winternheimer
 03May2024
 10:16:00 AM MDT
 PREPARED BY / DATE


 Phillip Travisano
 03May2024
 10:19:00 AM MDT
 APPROVED BY / DATE

25mg Melatonin Softgels


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**Heavy Metals -
Colorado Compliance**

Test ID: T000278688
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.74	ND	
Cadmium	0.05 - 4.91	ND	
Mercury	0.05 - 4.77	ND	
Lead	0.01 - 0.79	ND	

Final Approval


Karen Winternheimer
30Apr2024
04:38:00 PM MDT
PREPARED BY / DATE


Colin Hendrickson
30Apr2024
05:08:00 PM MDT
APPROVED BY / DATE

25mg Melatonin Softgels


Batch ID or Lot Number: 240911A	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 6
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**Residual Solvents -
Colorado Compliance**

Test ID: T000278689
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	67 - 1334	ND	
Butanes (Isobutane, n-Butane)	139 - 2784	ND	
Methanol	54 - 1083	ND	
Pentane	75 - 1501	ND	
Ethanol	84 - 1678	ND	
Acetone	87 - 1746	ND	
Isopropyl Alcohol	92 - 1844	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	90 - 1808	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	84 - 1683	ND	
Toluene	16 - 327	ND	
Xylenes (m,p,o-Xylenes)	118 - 2361	ND	

Final Approval


 Karen Winternheimer
 01May2024
 08:18:00 AM MDT
 PREPARED BY / DATE


 Phillip Travisano
 01May2024
 08:19:00 AM MDT
 APPROVED BY / DATE

25mg Melatonin Softgels


Batch ID or Lot Number: 240911A	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 6
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Microbial Contaminants - Colorado Compliance

Test ID: T000278687
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	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



	Brett Hudson 03May2024 12:13:00 PM MDT		Brianne Maillot 04May2024 07:30:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

Mycotoxins - Colorado Compliance

Test ID: T000278690
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.41 - 128.82	ND	N/A
Aflatoxin B1	0.97 - 32.07	ND	
Aflatoxin B2	1.07 - 32.17	ND	
Aflatoxin G1	0.91 - 32.32	ND	
Aflatoxin G2	1.07 - 32.54	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

	Karen Winterheimer 06May2024 02:39:00 PM MDT		Colin Hendrickson 06May2024 02:40:00 PM MDT
PREPARED BY / DATE		APPROVED BY / DATE	



Certificate of Analysis
Compliance Test

Batch # 240911A Test Reg State: Colorado
Batch Date: 2024-09-11
Extracted From: N/A

Order Date: 2024-09-11 Sampling Date: 2024-09-13 Initial Gross Weight: 432.700 g Number of Units: 4
Sample # AAFY292 Lab Batch Date: 2024-09-13 Net Weight: 40.060 g Net Weight per Unit: 10015.000 mg
Completion Date: 2024-09-16

Pathogenic **Passed** Microbiology Petrifilm **Passed**

Product Image

Pathogenic SE (qPCR) - CO
Specimen Weight: 25.510 g

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
E.Coli	Passed	Salmonella	Passed

Passed
SOP13.029 (qPCR)

Microbiology (Petrifilm) - CO
Specimen Weight: 996.600 mg

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Limit (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Limit (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	10000	<10	Yeast/Mold	10	1000	<10
Total Coliform	10	100	<10				

Passed
SOP13.003 (Petrifilm)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THC + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per CO rule 6 CCR 1010-21. Failed - Analyte/microbe is at the level that equal or above the action limit per CO rule 6 CCR 1010-21 Sample not received via laboratory sampling.

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