

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels
PRODUCT STRENGTH: 25 mg CBD
TINCTURE BATCH: 230717A
BEST BY DATE: 6/9/2025
HEMP EXTRACT LOT: 23060802

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	*NLT 25 mg / softgel	29mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	ND	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	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	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	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 _____

7/24/2023

Date

25mg CBD Nano Softgel


Batch ID or Lot Number: 230717A	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 6
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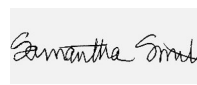
Cannabinoids - Colorado Compliance

Test ID: T000246816
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.059	0.171	ND	ND	# of Servings = 1 Sample Weight=0.534g
Cannabichromenic Acid (CBCA)	0.054	0.156	ND	ND	
Cannabidiol (CBD)	0.184	0.474	29.167	54.64	
Cannabidiolic Acid (CBDA)	0.189	0.486	ND	ND	
Cannabidivarin (CBDV)	0.044	0.112	0.130	0.24	
Cannabidivarinic Acid (CBDVA)	0.079	0.203	ND	ND	
Cannabigerol (CBG)	0.033	0.097	1.534	2.87	
Cannabigerolic Acid (CBGA)	0.139	0.406	ND	ND	
Cannabinol (CBN)	0.044	0.127	ND	ND	
Cannabinolic Acid (CBNA)	0.095	0.277	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.166	0.483	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.151	0.439	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.134	0.389	ND	ND	
Tetrahydrocannabivarin (THCV)	0.030	0.088	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.118	0.343	ND	ND	
Total Cannabinoids			30.831	57.75	
Total Potential THC			ND	ND	
Total Potential CBD			29.167	54.64	

Final Approval


 Karen Winternheimer
 22Jun2023
 12:04:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 22Jun2023
 12:06:00 PM MDT
 APPROVED BY / DATE

25mg CBD Nano Softgel


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Mycotoxins - Colorado Compliance

Test ID: T000246821
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.39 - 133.54	ND	N/A
Aflatoxin B1	0.97 - 32.49	ND	
Aflatoxin B2	0.97 - 32.53	ND	
Aflatoxin G1	1.00 - 32.79	ND	
Aflatoxin G2	1.00 - 32.95	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
23Jun2023
01:33:00 PM MDT
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Karen Winternheimer
23Jun2023
01:36:00 PM MDT
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Heavy Metals - Colorado Compliance

Test ID: T000246819
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.03 - 3.03	ND	
Cadmium	0.05 - 4.73	ND	
Mercury	0.04 - 4.22	ND	
Lead	0.04 - 3.87	ND	

Final Approval


Sam Smith
25Jun2023
10:53:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
25Jun2023
11:08:00 AM MDT
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**Residual Solvents -
Colorado Compliance**


Test ID: T000246820
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	113 - 2251	ND	
Butanes (Isobutane, n-Butane)	224 - 4486	ND	
Methanol	66 - 1329	ND	
Pentane	110 - 2195	ND	
Ethanol	113 - 2262	ND	
Acetone	107 - 2150	ND	
Isopropyl Alcohol	111 - 2228	ND	
Hexane	6 - 129	ND	
Ethyl Acetate	107 - 2147	ND	
Benzene	0.2 - 4.5	ND	
Heptanes	110 - 2209	ND	
Toluene	20 - 392	ND	
Xylenes (m,p,o-Xylenes)	143 - 2864	ND	

Final Approval


Sam Smith
26Jun2023
02:24:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
26Jun2023
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25mg CBD Nano Softgel

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**Microbial
Contaminants -
Colorado Compliance**

Test ID: T000246818
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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Eden Thompson-Wright
26Jun2023
09:58:00 AM MDT

PREPARED BY / DATE



Brianne Maillot
26Jun2023
04:56:00 PM MDT

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Pesticides


Test ID: T000246817

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	308 - 2726	ND		Malathion	288 - 2702	ND
Acephate	43 - 2716	ND		Metalaxyl	46 - 2683	ND
Acetamiprid	42 - 2723	ND		Methiocarb	42 - 2713	ND
Azoxystrobin	46 - 2669	ND		Methomyl	42 - 2746	ND
Bifenazate	44 - 2667	ND		MGK 264 1	165 - 1708	ND
Boscalid	34 - 2701	ND		MGK 264 2	103 - 1089	ND
Carbaryl	39 - 2722	ND		Myclobutanil	45 - 2719	ND
Carbofuran	43 - 2710	ND		Naled	44 - 2717	ND
Chlorantraniliprole	43 - 2726	ND		Oxamyl	41 - 2764	ND
Chlorpyrifos	39 - 2759	ND		Paclobutrazol	46 - 2715	ND
Clofentezine	288 - 2741	ND		Permethrin	275 - 2730	ND
Diazinon	282 - 2686	ND		Phosmet	46 - 2656	ND
Dichlorvos	285 - 2755	ND		Prophos	293 - 2688	ND
Dimethoate	41 - 2731	ND		Propoxur	43 - 2714	ND
E-Fenpyroximate	272 - 2762	ND		Pyridaben	282 - 2760	ND
Etofenprox	43 - 2725	ND		Spinosad A	30 - 2076	ND
Etoxazole	278 - 2748	ND		Spinosad D	58 - 670	ND
Fenoxycarb	13 - 2670	ND		Spiromesifen	269 - 2733	ND
Fipronil	60 - 2716	ND		Spirotetramat	284 - 2693	ND
Flonicamid	52 - 2707	ND		Spiroxamine 1	18 - 1200	ND
Fludioxonil	306 - 2679	ND		Spiroxamine 2	24 - 1504	ND
Hexythiazox	40 - 2786	ND		Tebuconazole	287 - 2718	ND
Imazalil	267 - 2685	ND		Thiacloprid	41 - 2710	ND
Imidacloprid	45 - 2814	ND		Thiamethoxam	39 - 2741	ND
Kresoxim-methyl	45 - 2697	ND		Trifloxystrobin	44 - 2705	ND

Final Approval


 Karen Winternheimer
 29Jun2023
 10:44:00 AM MDT
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 Sam Smith
 29Jun2023
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