

# 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
<b>Potency - Total CBD</b>	HPLC-UV DAD	*NLT 25 mg / softgel	<b>29mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% (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>Below LOQ</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>Below LOQ</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	<b>Below LOQ</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>Below LOQ</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 \_\_\_\_\_

 7/24/2023  
 Date \_\_\_\_\_

**25mg CBD Nano Softgel**


Batch ID or Lot Number: <b>230717A</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 6
Reported: <b>22Jun2023</b>	Started: 20Jun2023	Received: 21Jun2023	

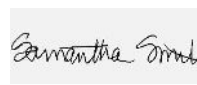
**Cannabinoids - Colorado Compliance**

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	
<b>Total Cannabinoids</b>			<b>30.831</b>	<b>57.75</b>	
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**


Batch ID or Lot Number: <b>230717A</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 2 of 6
Reported: <b>22Jun2023</b>	Started: 20Jun2023	Received: 21Jun2023	


**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  
PREPARED BY / DATE

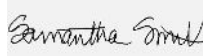
  
Karen Winternheimer  
23Jun2023  
01:36:00 PM MDT  
APPROVED BY / DATE


**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  
APPROVED BY / DATE

**25mg CBD Nano Softgel**

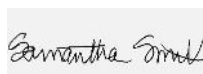
Batch ID or Lot Number: <b>230717A</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 3 of 6
Reported: <b>22Jun2023</b>	Started: 20Jun2023	Received: 21Jun2023	


**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  
 02:25:00 PM MDT  
 APPROVED BY / DATE

**25mg CBD Nano Softgel**

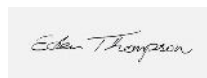
Batch ID or Lot Number: <b>230717A</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 6
Reported: <b>22Jun2023</b>	Started: 20Jun2023	Received: 21Jun2023	

**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 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	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>	<LLOQ	
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**



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

PREPARED BY / DATE



Brianne Maillot  
26Jun2023  
04:56:00 PM MDT

APPROVED BY / DATE

**25mg CBD Nano Softgel**

Batch ID or Lot Number: <b>230717A</b>	Test, Test ID and Methods: Various	Matrix: Unit	Page 5 of 6
Reported: <b>22Jun2023</b>	Started: 20Jun2023	Received: 21Jun2023	


**Pesticides**

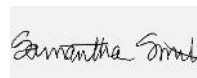
Test ID: T000246817

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  
 PREPARED BY / DATE

  
 Sam Smith  
 29Jun2023  
 10:46:00 AM MDT  
 APPROVED BY / DATE