

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Nano CBD Softgels  
**PRODUCT STRENGTH:** 25 mg CBD  
**TINCTURE BATCH:** 7876  
**BEST BY DATE:** 12/21/2024  
**HEMP EXTRACT LOT:** 22BL07876

### 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>30mg</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 \_\_\_\_\_

4/19/2023

Date

**25mg CBD Softgels**


Batch ID or Lot Number: SG25-7876	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 6
Reported: 16Jan2023	Started: 13Jan2023	Received: 12Jan2023	


**Cannabinoids - Colorado Compliance**

Test ID: T000232724  
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.053	0.166	<LOQ	<LOQ	# of Servings = 1 Sample Weight=0.631g
Cannabichromenic Acid (CBCA)	0.048	0.152	ND	ND	
Cannabidiol (CBD)	0.143	0.463	30.369	48.16	
Cannabidiolic Acid (CBDA)	0.146	0.475	ND	ND	
Cannabidivarin (CBDV)	0.034	0.110	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.061	0.198	ND	ND	
Cannabigerol (CBG)	0.030	0.094	1.923	3.05	
Cannabigerolic Acid (CBGA)	0.126	0.394	ND	ND	
Cannabinol (CBN)	0.039	0.123	ND	ND	
Cannabinolic Acid (CBNA)	0.086	0.269	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.150	0.469	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.136	0.426	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.121	0.377	ND	ND	
Tetrahydrocannabivarin (THCV)	0.027	0.086	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.106	0.333	ND	ND	
<b>Total Cannabinoids</b>			<b>32.292</b>	<b>51.21</b>	
Total Potential THC			ND	ND	
Total Potential CBD			30.369	48.16	

**Final Approval**

  
Sam Smith  
16Jan2023  
03:51:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
16Jan2023  
03:55:00 PM MST  
APPROVED BY / DATE

## 25mg CBD Softgels

Batch ID or Lot Number: SG25-7876	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 16Jan2023	Started: 13Jan2023	Received: 12Jan2023	


## Residual Solvents - Colorado Compliance

Test ID: T000232728


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1841	ND	
Butanes (Isobutane, n-Butane)	185 - 3701	ND	
Methanol	56 - 1120	ND	
Pentane	93 - 1866	ND	
Ethanol	96 - 1915	ND	
Acetone	93 - 1850	ND	
Isopropyl Alcohol	98 - 1962	ND	
Hexane	6 - 115	ND	
Ethyl Acetate	94 - 1884	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	94 - 1887	ND	
Toluene	18 - 350	ND	
Xylenes (m,p,o-Xylenes)	130 - 2596	ND	

### Final Approval

  
Samantha Smith  
16Jan2023  
11:49:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
16Jan2023  
11:52:00 AM MST

APPROVED BY / DATE

## 25mg CBD Softgels


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## Microbial Contaminants - Colorado Compliance

Test ID: T000232726  
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
Salmonella	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>	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

  
Brianne Maillot  
15Jan2023  
10:41:00 AM MST

PREPARED BY / DATE

  
Eden Thompson-Wright  
16Jan2023  
01:39:00 PM MST


APPROVED BY / DATE

## Heavy Metals - Colorado Compliance


Test ID: T000232727  
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.50	ND	
Cadmium	0.05 - 4.60	ND	
Mercury	0.05 - 4.56	ND	
Lead	0.04 - 4.37	ND	

### Final Approval

  
Sam Smith  
16Jan2023  
12:31:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
16Jan2023  
12:34:00 PM MST

APPROVED BY / DATE

**25mg CBD Softgels**


Batch ID or Lot Number: <b>SG25-7876</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 6
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**Mycotoxins - Colorado Compliance**

Test ID: T000232729  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.52 - 133.00	ND	N/A
Aflatoxin B1	1.12 - 33.37	ND	
Aflatoxin B2	1.06 - 33.57	ND	
Aflatoxin G1	1.15 - 33.64	ND	
Aflatoxin G2	1.09 - 33.54	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

**Final Approval**

  
PREPARED BY / DATE  
Sam Smith  
19Jan2023  
07:43:00 AM MST

  
APPROVED BY / DATE  
Karen Winternheimer  
19Jan2023  
07:44:00 AM MST

**25mg CBD Softgels**

Batch ID or Lot Number: <b>SG25-7876</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 6
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**Pesticides**


Test ID: T000232725

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	320 - 2724	ND	Malathion	293 - 2732	ND
Acephate	43 - 2822	ND	Metalaxyl	41 - 2751	ND
Acetamiprid	41 - 2774	ND	Methiocarb	45 - 2813	ND
Azoxystrobin	44 - 2723	ND	Methomyl	39 - 2813	ND
Bifenazate	46 - 2720	ND	MGK 264 1	174 - 1627	ND
Boscalid	38 - 2883	ND	MGK 264 2	116 - 1134	ND
Carbaryl	43 - 2739	ND	Myclobutanil	55 - 2829	ND
Carbofuran	42 - 2712	ND	Naled	48 - 2745	ND
Chlorantraniliprole	49 - 2785	ND	Oxamyl	39 - 2802	ND
Chlorpyrifos	50 - 2727	ND	Paclobutrazol	50 - 2693	ND
Clofentezine	286 - 2736	ND	Permethrin	166 - 2792	ND
Diazinon	270 - 2724	ND	Phosmet	39 - 2724	ND
Dichlorvos	280 - 2782	ND	Prophos	291 - 2829	ND
Dimethoate	40 - 2774	ND	Propoxur	43 - 2732	ND
E-Fenpyroximate	284 - 2729	ND	Pyridaben	295 - 2726	ND
Etofenprox	43 - 2709	ND	Spinosad A	35 - 2252	ND
Etoxazole	295 - 2729	ND	Spinosad D	48 - 494	ND
Fenoxycarb	40 - 2754	ND	Spiromesifen	284 - 2752	ND
Fipronil	68 - 2730	ND	Spirotetramat	283 - 2758	ND
Flonicamid	55 - 2849	ND	Spiroxamine 1	18 - 1193	ND
Fludioxonil	288 - 2866	ND	Spiroxamine 2	19 - 1620	ND
Hexythiazox	45 - 2748	ND	Tebuconazole	270 - 2766	ND
Imazalil	251 - 2736	ND	Thiacloprid	43 - 2779	ND
Imidacloprid	48 - 2784	ND	Thiamethoxam	34 - 2824	ND
Kresoxim-methyl	43 - 2766	ND	Trifloxystrobin	42 - 2745	ND

**Final Approval**

 Karen Winternheimer  
20Jan2023  
09:04:00 AM MST  
PREPARED BY / DATE

 Sam Smith  
20Jan2023  
09:08:00 AM MST  
APPROVED BY / DATE