

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Nano CBD Softgels  
**PRODUCT STRENGTH:** 10 mg CBD  
**TINCTURE BATCH:** 230116D  
**BEST BY DATE:** 11/21/2024  
**HEMP EXTRACT LOT:** 44DN2: 535

### 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 10 mg / softgel	<b>12mg</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>ND</b>	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Below LOQ</b>	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	<b>Below LOQ</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>ND</b>	PASS
<b>Mycotoxins</b>	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	<b>ND</b>	PASS
<b>Residual Solvents</b>	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	<b>ND</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



1/20/2023

Quality Certified

Name

Date

## 10mg CBD Softgels

Batch ID or Lot Number: <b>230116D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: <b>30Nov2022</b>	Started: 30Nov2022	Received: 29Nov2022	

## Cannabinoids - Colorado Compliance


Test ID: T000229070


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

Cannabinoid Analysis

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.023	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.006	0.021	ND	ND	
Cannabidiol (CBD)	0.022	0.061	3.476	34.76	
Cannabidiolic Acid (CBDA)	0.023	0.062	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.010	0.026	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.228	2.28	
Cannabigerolic Acid (CBGA)	0.015	0.054	ND	ND	
Cannabinol (CBN)	0.005	0.017	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.037	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.018	0.064	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.017	0.058	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.015	0.051	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.045	ND	ND	
<b>Total Cannabinoids</b>			<b>3.704</b>	<b>37.04</b>	
Total Potential THC			ND	ND	
Total Potential CBD			3.476	34.76	

### Final Approval

  
Sam Smith  
01Dec2022  
05:24:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
01Dec2022  
05:30:00 PM MST  
APPROVED BY / DATE

## Heavy Metals - Colorado Compliance


Test ID: T000229073

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.64	ND	
Cadmium	0.04 - 4.34	ND	
Mercury	0.04 - 4.41	ND	
Lead	0.05 - 4.77	ND	

### Final Approval

  
Colin Hendrickson  
01Dec2022  
10:03:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
01Dec2022  
10:08:00 AM MST  
APPROVED BY / DATE

**10mg CBD Softgels**

Batch ID or Lot Number: <b>230116D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 5
Reported: <b>30Nov2022</b>	Started: 30Nov2022	Received: 29Nov2022	


**Residual Solvents -  
Colorado Compliance**

Test ID: T000229074


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	84 - 1681	ND	
Butanes (Isobutane, n-Butane)	164 - 3273	ND	
Methanol	55 - 1092	ND	
Pentane	88 - 1761	ND	
Ethanol	88 - 1753	ND	
Acetone	88 - 1768	ND	
Isopropyl Alcohol	94 - 1871	ND	
Hexane	5 - 106	ND	
Ethyl Acetate	91 - 1811	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	93 - 1864	ND	
Toluene	16 - 324	ND	
Xylenes (m,p,o-Xylenes)	118 - 2369	ND	

**Final Approval**

 Sam Smith  
02Dec2022  
06:37:00 PM MST

PREPARED BY / DATE

 Karen Winternheimer  
02Dec2022  
06:41:00 PM MST

APPROVED BY / DATE

**10mg CBD Softgels**


Batch ID or Lot Number: <b>230116D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: <b>30Nov2022</b>	Started: 30Nov2022	Received: 29Nov2022	


**Microbial  
Contaminants -  
Colorado Compliance**

Test ID: T000229072  
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>	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**

  
Brett Hudson  
02Dec2022  
01:34:00 PM MST  
PREPARED BY / DATE

  
Brianne Maillot  
03Dec2022  
06:11:00 PM MST  
APPROVED BY / DATE

**10mg CBD Softgels**

Batch ID or Lot Number: <b>230116D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported: <b>30Nov2022</b>	Started: 30Nov2022	Received: 29Nov2022	


**Pesticides**


Test ID: T000229071

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	335 - 2667	ND		Malathion	290 - 2707	ND
Acephate	41 - 2767	ND		Metalaxyl	38 - 2744	ND
Acetamiprid	42 - 2742	ND		Methiocarb	44 - 2686	ND
Azoxystrobin	42 - 2720	ND		Methomyl	41 - 2754	ND
Bifenazate	40 - 2728	ND		MGK 264 1	166 - 1627	ND
Boscalid	44 - 2714	ND		MGK 264 2	116 - 1113	ND
Carbaryl	43 - 2725	ND		Myclobutanil	38 - 2682	ND
Carbofuran	42 - 2708	ND		Naled	42 - 2756	ND
Chlorantraniliprole	43 - 2667	ND		Oxamyl	40 - 2746	ND
Chlorpyrifos	38 - 2642	ND		Paclobutrazol	48 - 2701	ND
Clofentezine	279 - 2733	ND		Permethrin	294 - 2686	ND
Diazinon	276 - 2737	ND		Phosmet	40 - 2702	ND
Dichlorvos	280 - 2790	ND		Prophos	290 - 2696	ND
Dimethoate	38 - 2742	ND		Propoxur	42 - 2704	ND
E-Fenpyroximate	294 - 2676	ND		Pyridaben	305 - 2654	ND
Etofenprox	42 - 2681	ND		Spinosad A	32 - 2231	ND
Etoxazole	306 - 2670	ND		Spinosad D	49 - 485	ND
Fenoxycarb	42 - 2736	ND		Spiromesifen	290 - 2693	ND
Fipronil	41 - 2666	ND		Spirotetramat	278 - 2722	ND
Flonicamid	47 - 2713	ND		Spiroxamine 1	18 - 1128	ND
Fludioxonil	267 - 2705	ND		Spiroxamine 2	22 - 1539	ND
Hexythiazox	39 - 2705	ND		Tebuconazole	285 - 2720	ND
Imazalil	250 - 2752	ND		Thiacloprid	42 - 2742	ND
Imidacloprid	47 - 2728	ND		Thiamethoxam	39 - 2769	ND
Kresoxim-methyl	38 - 2747	ND		Trifloxystrobin	43 - 2732	ND

**Final Approval**

  
 Sam Smith  
 06Dec2022  
 11:07:00 AM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 06Dec2022  
 11:11:00 AM MST  
 APPROVED BY / DATE

**10mg CBD Softgels**


Batch ID or Lot Number: <b>230116D</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 5
Reported: <b>30Nov2022</b>	Started: 30Nov2022	Received: 29Nov2022	


**Mycotoxins - Colorado Compliance**

Test ID: T000229075  
Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.58 - 127.81	ND	N/A
Aflatoxin B1	0.94 - 32.64	ND	
Aflatoxin B2	0.87 - 32.57	ND	
Aflatoxin G1	0.97 - 32.70	ND	
Aflatoxin G2	1.00 - 32.93	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

**Final Approval**

  
Sam Smith  
07Dec2022  
08:08:00 AM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
07Dec2022  
08:09:00 AM MST  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1ea57ffa-2e7a-4014-a518-f7c8b6ec4a18>

**Definitions**  
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa \*(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU.

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