

# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** Nano CBD Softgels with Curcumin  
**PRODUCT STRENGTH:** 25mg CBD / 250mg Curcumin  
**TINCTURE BATCH:** 230130A  
**BEST BY DATE:** 11/15/2024  
**HEMP EXTRACT LOT:** 22111403

### Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Red	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	*NTL 25mg / softgel	<b>31mg</b>	PASS
<b>Potency - D9-THC</b>	HPLC-UV DAD	LOQ: <0.01% THC (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>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>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



2/2/2023

Quality Certified

Name

Date


## CBD Softgels 25 mg Curcumin


Batch ID or Lot Number: <b>230130A</b>	Test: <b>Potency</b>	Reported: <b>22Nov2022</b>	USDA License: N/A
Matrix: Unit	Test ID: T000228251	Started: 22Nov2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 21Nov2022	Status: Active

### Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.096	0.308	<LOQ	<LOQ	# of Servings = 1 Sample Weight=0.54g
Cannabichromenic Acid (CBCA)	0.088	0.282	ND	ND	
Cannabidiol (CBD)	0.314	0.825	31.094	57.63	
Cannabidiolic Acid (CBDA)	0.322	0.847	ND	ND	
Cannabidivarin (CBDV)	0.074	0.195	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.134	0.353	ND	ND	
Cannabigerol (CBG)	0.055	0.175	2.897	5.37	
Cannabigerolic Acid (CBGA)	0.229	0.731	ND	ND	
Cannabinol (CBN)	0.071	0.228	ND	ND	
Cannabinolic Acid (CBNA)	0.156	0.499	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.273	0.871	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.248	0.791	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.219	0.701	ND	ND	
Tetrahydrocannabivarin (THCV)	0.050	0.159	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.194	0.618	ND	ND	
<b>Total Cannabinoids</b>			<b>33.991</b>	<b>63.00</b>	
Total Potential THC			ND	ND	
Total Potential CBD			31.094	57.63	

### Final Approval

  
Samantha Smith  
22Nov2022  
01:45:00 PM MST  
PREPARED BY / DATE

  
Karen Winternheimer  
22Nov2022  
01:49:00 PM MST  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e4a5707a-4da3-4446-a7e0-b82eaa40a153>

**Definitions**  
% = % (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)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02

CDPHE Certified

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**CBD Softgels 25 mg Curcumin**

Batch ID or Lot Number: <b>230130A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: <b>22Nov2022</b>	Started: 22Nov2022	Received: 21Nov2022	


**Residual Solvents -  
Colorado Compliance**

Test ID: T000228255


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	65 - 1295	ND	
Butanes (Isobutane, n-Butane)	127 - 2549	ND	
Methanol	42 - 836	ND	
Pentane	70 - 1401	ND	
Ethanol	70 - 1397	ND	
Acetone	69 - 1378	ND	
Isopropyl Alcohol	71 - 1414	ND	
Hexane	4 - 85	ND	
Ethyl Acetate	72 - 1430	ND	
Benzene	0.1 - 2.9	ND	
Heptanes	72 - 1441	ND	
Toluene	12 - 243	ND	
Xylenes (m,p,o-Xylenes)	91 - 1830	ND	

**Final Approval**

  
Sam Smith  
22Nov2022  
01:59:00 PM MST

PREPARED BY / DATE

  
Karen Winternheimer  
22Nov2022  
01:59:00 PM MST

APPROVED BY / DATE

## CBD Softgels 25 mg Curcumin

Batch ID or Lot Number: <b>230130A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 5
Reported: <b>22Nov2022</b>	Started: 22Nov2022	Received: 21Nov2022	

### Microbial Contaminants - Colorado Compliance

Test ID: T000228253  
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

 Eden Thompson-Wright 25Nov2022 10:42:00 AM MST	 Brianne Maillot 25Nov2022 01:48:00 PM MST
PREPARED BY / DATE	APPROVED BY / DATE

### Heavy Metals - Colorado Compliance

Test ID: T000228254  
Methods: TM19 (ICP-MS): Heavy  
Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 3.67	ND	
Cadmium	0.03 - 3.33	ND	
Mercury	0.03 - 3.45	ND	
Lead	0.03 - 3.13	ND	

#### Final Approval

 Sam Smith 27Nov2022 08:34:00 AM MST	 Karen Winternheimer 27Nov2022 08:47:00 AM MST
PREPARED BY / DATE	APPROVED BY / DATE

**SG25C CBD Softgels 25 mg Curcumin**


Batch ID or Lot Number: <b>230130A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: <b>22Nov2022</b>	Started: 22Nov2022	Received: 21Nov2022	

**Mycotoxins - Colorado Compliance**

Test ID: T000228256  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.87 - 130.00	ND	N/A
Aflatoxin B1	0.97 - 33.22	ND	
Aflatoxin B2	1.03 - 33.15	ND	
Aflatoxin G1	1.13 - 33.83	ND	
Aflatoxin G2	1.13 - 33.45	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

**Final Approval**

  
PREPARED BY / DATE  
Sam Smith  
29Nov2022  
09:14:00 AM MST

  
APPROVED BY / DATE  
Karen Winternheimer  
29Nov2022  
09:17:00 AM MST

## CBD Softgels 25 mg Curcumin

Batch ID or Lot Number: <b>230130A</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported: <b>22Nov2022</b>	Started: 22Nov2022	Received: 21Nov2022	


### Pesticides


Test ID: T000228252

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	305 - 2676	ND		Malathion	301 - 2750	ND
Acephate	41 - 2759	ND		Metalaxyl	47 - 2739	ND
Acetamiprid	44 - 2746	ND		Methiocarb	43 - 2743	ND
Azoxystrobin	46 - 2724	ND		Methomyl	43 - 2753	ND
Bifenazate	45 - 2712	ND		MGK 264 1	181 - 1606	ND
Boscalid	45 - 2751	ND		MGK 264 2	120 - 1149	ND
Carbaryl	43 - 2735	ND		Myclobutanil	46 - 2762	ND
Carbofuran	44 - 2736	ND		Naled	48 - 2769	ND
Chlorantraniliprole	51 - 2753	ND		Oxamyl	42 - 2740	ND
Chlorpyrifos	46 - 2754	ND		Paclobutrazol	42 - 2743	ND
Clofentezine	286 - 2770	ND		Permethrin	240 - 2787	ND
Diazinon	283 - 2744	ND		Phosmet	47 - 2723	ND
Dichlorvos	312 - 2736	ND		Prophos	300 - 2744	ND
Dimethoate	44 - 2728	ND		Propoxur	44 - 2735	ND
E-Fenpyroximate	289 - 2786	ND		Pyridaben	291 - 2703	ND
Etofenprox	46 - 2791	ND		Spinosad A	34 - 2246	ND
Etoxazole	305 - 2753	ND		Spinosad D	51 - 504	ND
Fenoxycarb	44 - 2762	ND		Spiromesifen	282 - 2763	ND
Fipronil	54 - 2891	ND		Spirotetramat	285 - 2787	ND
Flonicamid	48 - 2696	ND		Spiroxamine 1	17 - 1182	ND
Fludioxonil	300 - 2724	ND		Spiroxamine 2	24 - 1566	ND
Hexythiazox	43 - 2798	ND		Tebuconazole	287 - 2758	ND
Imazalil	269 - 2784	ND		Thiacloprid	44 - 2743	ND
Imidacloprid	47 - 2761	ND		Thiamethoxam	41 - 2770	ND
Kresoxim-methyl	48 - 2780	ND		Trifloxystrobin	45 - 2763	ND

### Final Approval

  
 Sam Smith  
 30Nov2022  
 12:52:00 PM MST  
 PREPARED BY / DATE

  
 Karen Winternheimer  
 30Nov2022  
 12:56:00 PM MST  
 APPROVED BY / DATE