

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: 22BL08313

Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	No odor	PASS
Appearance	Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	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 10 mg / softgel	12mg	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	ND	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Below LOQ	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Below LOQ	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	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	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

1/19/2023

Date

10mg CBD Softgels

Batch ID or Lot Number: 230116D	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: 30Nov2022	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	
Total Cannabinoids			3.704	37.04	
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

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**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


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**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 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	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	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: 230116D	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
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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


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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


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


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



<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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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