

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Full Spectrum Nano CBD Softgels
PRODUCT STRENGTH: 25mg CBD
TINCTURE BATCH: 7756
BEST BY DATE: 12/12/2024
HEMP EXTRACT LOT: 22BL07756

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
Potency - Total CBD	HPLC-UV DAD	*NLT 25mg / softgel	30.98	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.03% (full spectrum)	0.7mg	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	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	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Aflatoxin B1 < 5 ppb Ochratoxin < 5ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	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

12/14/2022

Date

CBD Softgels 25mg FS

Batch ID or Lot Number: SG25FS-7756	Test: Potency	Reported: 06Dec2022	USDA License: N/A
Matrix: Unit	Test ID: T000229530	Started: 06Dec2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 02Dec2022	Status: Active

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.087	0.320	<LOQ	<LOQ	# of Servings = 1 Sample Weight=0.661g
Cannabichromenic Acid (CBCA)	0.080	0.293	ND	ND	
Cannabidiol (CBD)	0.281	0.833	30.894	46.72	
Cannabidiolic Acid (CBDA)	0.288	0.854	ND	ND	
Cannabidivarin (CBDV)	0.066	0.197	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.120	0.356	ND	ND	
Cannabigerol (CBG)	0.050	0.182	3.488	5.28	
Cannabigerolic Acid (CBGA)	0.207	0.760	ND	ND	
Cannabinol (CBN)	0.065	0.237	0.524	0.79	
Cannabinolic Acid (CBNA)	0.141	0.519	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.247	0.906	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.224	0.823	0.708	1.07	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.199	0.729	ND	ND	
Tetrahydrocannabivarin (THCV)	0.045	0.165	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.175	0.643	ND	ND	
Total Cannabinoids			35.614	53.86	
Total Potential THC			0.708	1.07	
Total Potential CBD			30.894	46.72	

Final Approval


Samantha Smith
06Dec2022
01:59:00 PM MST

PREPARED BY / DATE


Karen Winternheimer
06Dec2022
02:07:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/23864d63-5485-48bf-8834-4ca660c426dd>

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
23864d63548548bf88344ca660c426dd.1

CBD Softgels 25mg FS

Batch ID or Lot Number: SG25FS-7756	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 27Oct2022	Started: 26Oct2022	Received: 25Oct2022	


Residual Solvents - Colorado Compliance

Test ID: T000225760


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	80 - 1596	ND	
Butanes (Isobutane, n-Butane)	171 - 3425	ND	
Methanol	60 - 1191	ND	
Pentane	93 - 1850	ND	
Ethanol	97 - 1948	ND	
Acetone	93 - 1853	ND	
Isopropyl Alcohol	102 - 2044	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	96 - 1929	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	95 - 1902	ND	
Toluene	17 - 346	ND	
Xylenes (m,p,o-Xylenes)	130 - 2591	ND	

Final Approval

 Karen Winternheimer
27Oct2022
09:44:00 AM MDT

PREPARED BY / DATE

 Sam Smith
27Oct2022
09:45:00 AM MDT

APPROVED BY / DATE


Density Analysis

Test ID: T000225761


Methods: TL-SOP-0034 (Gravimetric)

Result	Notes
Density 1.057 g/ml	Free from visual mold, mildew, and foreign matter N/A

Final Approval

 Karen Winternheimer
27Oct2022
02:29:00 PM MDT

PREPARED BY / DATE

 Sam Smith
27Oct2022
02:30:00 PM MDT

APPROVED BY / DATE

CBD Softgels 25mg FS

Batch ID or Lot Number: SG25FS-7756	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 6
Reported: 27Oct2022	Started: 26Oct2022	Received: 25Oct2022	

Pesticides


Test ID: T000225757

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	318 - 2745	ND		Malathion	286 - 2743	ND
Acephate	41 - 2764	ND		Metalaxyl	38 - 2771	ND
Acetamiprid	39 - 2738	ND		Methiocarb	39 - 2738	ND
Azoxystrobin	40 - 2744	ND		Methomyl	38 - 2761	ND
Bifenazate	36 - 2738	ND		MGK 264 1	169 - 1610	ND
Boscalid	37 - 2740	ND		MGK 264 2	116 - 1114	ND
Carbaryl	38 - 2693	ND		Myclobutanil	47 - 2783	ND
Carbofuran	38 - 2698	ND		Naled	45 - 2724	ND
Chlorantraniliprole	40 - 2758	ND		Oxamyl	39 - 2753	ND
Chlorpyrifos	36 - 2762	ND		Paclobutrazol	41 - 2677	ND
Clofentezine	280 - 2722	ND		Permethrin	296 - 2750	ND
Diazinon	276 - 2751	ND		Phosmet	37 - 2752	ND
Dichlorvos	269 - 2783	ND		Prophos	302 - 2738	ND
Dimethoate	38 - 2733	ND		Propoxur	38 - 2700	ND
E-Fenpyroximate	300 - 2707	ND		Pyridaben	292 - 2656	ND
Etofenprox	40 - 2716	ND		Spinosad A	30 - 2241	ND
Etoxazole	297 - 2696	ND		Spinosad D	51 - 498	ND
Fenoxycarb	40 - 2744	ND		Spiromesifen	285 - 2742	ND
Fipronil	43 - 2785	ND		Spirotetramat	284 - 2760	ND
Flonicamid	45 - 2740	ND		Spiroxamine 1	17 - 1176	ND
Fludioxonil	288 - 2735	ND		Spiroxamine 2	18 - 1577	ND
Hexythiazox	38 - 2736	ND		Tebuconazole	285 - 2721	ND
Imazalil	281 - 2797	ND		Thiacloprid	40 - 2749	ND
Imidacloprid	44 - 2749	ND		Thiamethoxam	42 - 2747	ND
Kresoxim-methyl	39 - 2762	ND		Trifloxystrobin	41 - 2717	ND

Final Approval


 Karen Winternheimer
 29Oct2022
 02:02:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 29Oct2022
 02:04:00 PM MDT
 APPROVED BY / DATE

CBD Softgels 25mg FS

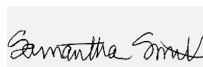
Batch ID or Lot Number: SG25FS-7756	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 6
Reported: 27Oct2022	Started: 26Oct2022	Received: 25Oct2022	


Heavy Metals - Colorado Compliance

Test ID: T000225759
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 3.95	ND	
Cadmium	0.04 - 4.02	ND	
Mercury	0.04 - 4.26	ND	
Lead	0.04 - 4.40	ND	

Final Approval


Sam Smith
31Oct2022
08:23:00 AM MDT
PREPARED BY / DATE



Karen Winternheimer
31Oct2022
08:28:00 AM MDT
APPROVED BY / DATE

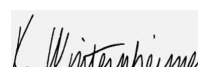
Mycotoxins - Colorado Compliance

Test ID: T000225762
Methods: TM18 (UHPLC-QQQ
LCMS/MS): Mycotoxins

LCMS/MS: Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.73 - 122.13	ND	N/A
Aflatoxin B1	0.86 - 31.31	ND	
Aflatoxin B2	0.89 - 31.62	ND	
Aflatoxin G1	0.92 - 31.03	ND	
Aflatoxin G2	0.92 - 31.83	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
01Nov2022
08:27:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
01Nov2022
08:34:00 AM MDT
APPROVED BY / DATE

CBD Softgels 25mg FS

Batch ID or Lot Number: SG25FS-7756	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 6
Reported: 27Oct2022	Started: 26Oct2022	Received: 25Oct2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000225758
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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Eden Thompson-Wright
28Oct2022
11:03:00 AM MDT

PREPARED BY / DATE



Brett Hudson
28Oct2022
03:29:00 PM MDT

APPROVED BY / DATE