

Organic Full Spectrum CBD Tincture - Natural **PRODUCT NAME:**

PRODUCT STRENGTH: 900mg **TINCTURE BATCH:** 452646J

BEST BY DATE: 64647

DEC/2226;;/442:47 **HEMP EXTRACT LOT:**

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	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	$LOQ*: \ge product \ strength \\ mg \ / \ bottle$	1039mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	32mg	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	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†† Afltoxin 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

Quality Certified

*Level of Quantification

**Colony Forming Units per Gram † Parts Per Million †† Part Per Billion

Values expressed in scientific notation. Examples: 10^2=100 10^3=1,000



Date

5/3/2023



900mg Full Spectrum CBD Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230424H	Potency	29Aug2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219651	29Aug2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 29Aug2022	Status: Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.021	<loq< td=""><td>0.07</td><td></td></loq<>	0.07	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabidiol (CBD)	0.014	0.053	3.497	34.97	
Cannabidiolic Acid (CBDA)	0.015	0.055	ND	ND	
Cannabidivarin (CBDV)	0.003	0.013	0.015	0.15	
Cannabidivarinic Acid (CBDVA)	0.006	0.023	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.180	1.80	
Cannabigerolic Acid (CBGA)	0.017	0.050	ND	ND	
Cannabinol (CBN)	0.005	0.016	<loq< td=""><td>0.13</td><td></td></loq<>	0.13	
Cannabinolic Acid (CBNA)	0.011	0.034	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.060	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.018	0.054	0.111	1.11	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.048	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.043	ND	ND	
Total Cannabinoids			3.823	38.23	
Total Potential THC			0.111	1.11	
Total Potential CBD			3.497	34.97	

Final Approval

PREPARED BY / DATE

Samantha Smul

Sam Smith 30Aug2022 06:09:00 PM MDT

APPROVED BY / DATE

Daniel Weidensaul 30Aug2022 06:12:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/8a28d9c9-d870-42ca-ae6e-6088efd978bd

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-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 8a28d9c9d87042caae6e6088efd978bd.1



900mg Full Spectrum CBD Tincture- Natural

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 4
230424H	Various	Concentrate	
Reported: 01Nov2022	Started: 29Oct2022	Received: 28Oct2022	

Residual Solvents -Colorado Compliance

Test ID: T000226181

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	86 - 1729	ND	
Butanes (Isobutane, n-Butane)	173 - 3455	ND	
Methanol	54 - 1087	ND	
Pentane	91 - 1812	ND	
Ethanol	88 - 1767	ND	
Acetone	91 - 1814	ND	
Isopropyl Alcohol	94 - 1876	ND	
Hexane	5 - 107	ND	
Ethyl Acetate	91 - 1810	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	91 - 1825	ND	
Toluene	16 - 326	ND	
Xylenes (m,p,o-Xylenes)	118 - 2364	ND	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 01Nov2022

MUNHUMA 07:32:00 AM MDT

Sam Smith Somenthe Smoth 01Nov2022 07:36:00 AM MDT

APPROVED BY / DATE



900mg Full Spectrum CBD Tincture- Natural

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 4
230424H	Various	Concentrate	
Reported:	Started:	Received:	
01Nov2022	29Oct2022	28Oct2022	

Mycotoxins - Colorado Compliance

Test ID: T000226182

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.71 - 121.49	ND	N/A
Aflatoxin B1	0.86 - 31.15	ND	
Aflatoxin B2	0.89 - 31.45	ND	
Aflatoxin G1	0.92 - 30.87	ND	
Aflatoxin G2	0.92 - 31.67	ND	
Total Aflatoxins (B1, B2, G1, and C	G2)	ND	

Final Approval

Sawantha Small 01Nov2022 08:27:00 AM MDT

PREPARED BY / DATE

Sam Smith

Karen Winternheimer 01Nov2022 Mternheimer 08:34:00 AM MDT

Heavy Metals -

Colorado Compliance

Test ID: T000226180

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.17	ND	
Cadmium	0.04 - 4.21	ND	•
Mercury	0.04 - 4.14	ND	
Lead	0.04 - 4.02	ND	

Final Approval

Sawantha Small

Sam Smith 03Nov2022 09:29:00 AM MDT

Phillip Travisano 03Nov2022 10:09:00 AM MDT

PREPARED BY / DATE

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900mg Full Spectrum CBD Tincture- Natural

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 4
230424H	Various	Concentrate	
Reported:	Started:	Received:	
01Nov2022	29Oct2022	28Oct2022	

Pesticides

Test ID: T000226179 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	347 - 2834	ND	
Acephate	40 - 2789	ND	
Acetamiprid	40 - 2739	ND	
Azoxystrobin	40 - 2728	ND	
Bifenazate	40 - 2740	ND	
Boscalid	24 - 2691	ND	
Carbaryl	41 - 2714	ND	
Carbofuran	41 - 2728	ND	
Chlorantraniliprole	38 - 2701	ND	
Chlorpyrifos	46 - 2777	ND	
Clofentezine	279 - 2740	ND	
Diazinon	283 - 2727	ND	
Dichlorvos	155 - 2662	ND	
Dimethoate	39 - 2722	ND	
E-Fenpyroximate	284 - 2765	ND	
Etofenprox	41 - 2788	ND	
Etoxazole	296 - 2775	ND	
Fenoxycarb	34 - 2706	ND	
Fipronil	36 - 2830	ND	
Flonicamid	41 - 2750	ND	
Fludioxonil	293 - 2728	ND	
Hexythiazox	41 - 2789	ND	
Imazalil	256 - 2752	ND	
Imidacloprid	42 - 2718	ND	
Kresoxim-methyl	41 - 2792	ND	

	Dynamic Range (ppb)	Result (ppb)
Malathion	280 - 2714	ND
Metalaxyl	41 - 2751	ND
Methiocarb	42 - 2712	ND
Methomyl	37 - 2759	ND
MGK 264 1	171 - 1610	ND
MGK 264 2	119 - 1152	ND
Myclobutanil	32 - 2701	ND
Naled	43 - 2724	ND
Oxamyl	39 - 2754	ND
Paclobutrazol	41 - 2716	ND
Permethrin	280 - 2784	ND
Phosmet	43 - 2726	ND
Prophos	294 - 2723	ND
Propoxur	42 - 2717	ND
Pyridaben	311 - 2726	ND
Spinosad A	30 - 2236	ND
Spinosad D	46 - 503	ND
Spiromesifen	264 - 2798	ND
Spirotetramat	289 - 2729	ND
Spiroxamine 1	18 - 1170	ND
Spiroxamine 2	22 - 1529	ND
Tebuconazole	294 - 2713	ND
Thiacloprid	39 - 2731	ND
Thiamethoxam	38 - 2767	ND
Trifloxystrobin	42 - 2729	ND

Final Approval

PREPARED BY / DATE

Karen Winternheimer 04Nov2022 Mullimer 08:49:00 AM MDT

Garrantha Small 04Nov2022 08:53:00 AM MDT

Sam Smith

APPROVED BY / DATE





900mg Full Spectrum CBD Tincture- Natural

Batch ID or Lot Number: 230424H	Test: Microbial Contaminants	Reported: 01May2023	USDA License: N/A			
Matrix:	Test ID:	Started:	Sampler ID:			
Finished Product	T000242485	27Apr2023	N/A			
	Method(s):	Received:	Status:			
	TM25 (qPCR) TM24, TM26, TM27	27Apr2023	Active			
	(Culture Plating): Microbial (Colorado					
	Panel)					

Microbial			Quantitation			
Contaminants	Method	LOD	Range	Result	Notes	
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and — foreign matter —	
Salmonella	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

Peret lehm

Brett Hudson 01May2023 12:32:00 PM MDT

Eden Thompson

Eden Thompson-Wright 01May2023 04:46:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

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Definitions

* 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

CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation

STEC = Shiga Toxin-Producing E. coli

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

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