

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

900mg **PRODUCT STRENGTH:** 230220F **TINCTURE BATCH:** 2/20/2025

BEST BY DATE:

230202F **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	*NLT (product strength) mg / bottle	1066mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	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	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		PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram		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		PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb		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 10^2=100 CFU 10^3=1,000 CFU

2/22/2023

Date



900mg CBD Tincture- Natural

Batch ID or Lot Number: 230220F	Test: Potency	Reported: 10Feb2023	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Concentrate	T000235005	09Feb2023	N/A	
	Method(s):	Received:	Status:	
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	08Feb2023	Active	

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Not
Cannabichromene (CBC)	0.007	0.021	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabichromenic Acid (CBCA)	0.007	0.019	ND	ND	
Cannabidiol (CBD)	0.017	0.057	3.864	38.64	
Cannabidiolic Acid (CBDA)	0.018	0.058	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.019	0.19	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.246	2.46	
Cannabigerolic Acid (CBGA)	0.017	0.049	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.034	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.059	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.053	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.042	ND	ND	
Total Cannabinoids			4.129	41.29	
Total Potential THC			ND	ND	
Total Potential CBD			3.864	38.64	

Final Approval



Karen Winternheimer 10Feb2023 08:49:00 AM MST

Samantha Smill

Sam Smith 10Feb2023 09:17:00 AM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/e4bb28cc-85f7-4980-8078-ea62742dbc32

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 e4bb28cc85f749808078ea62742dbc32.1



900mg CBD Tincture- Natural

Batch ID or Lot Number: 230220F	Test: Pesticides	Reported: 10Feb2023	USDA License: NA	
Matrix: Concentrate	Test ID: T000235006	Started: 08Feb2023	Sampler ID: NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 08Feb2023	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	358 - 2647	ND
Acephate	42 - 2759	ND
Acetamiprid	43 - 2753	ND
Azoxystrobin	44 - 2729	ND
Bifenazate	43 - 2722	ND
Boscalid	45 - 2744	ND
Carbaryl	43 - 2719	ND
Carbofuran	44 - 2734	ND
Chlorantraniliprole	43 - 2726	ND
Chlorpyrifos	53 - 2824	ND
Clofentezine	275 - 2769	ND
Diazinon	292 - 2733	ND
Dichlorvos	275 - 2786	ND
Dimethoate	41 - 2737	ND
E-Fenpyroximate	293 - 2797	ND
Etofenprox	41 - 2790	ND
Etoxazole	309 - 2762	ND
Fenoxycarb	47 - 2690	ND
Fipronil	56 - 2762	ND
Flonicamid	43 - 2825	ND
Fludioxonil	318 - 2756	ND
Hexythiazox	45 - 2799	ND
Imazalil	288 - 2739	ND
Imidacloprid	41 - 2755	ND
Kresoxim-methyl	23 - 2807	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	280 - 2717	ND
Metalaxyl	46 - 2718	ND
Methiocarb	41 - 2688	ND
Methomyl	43 - 2762	ND
MGK 264 1	154 - 1645	ND
MGK 264 2	116 - 1140	ND
Myclobutanil	45 - 2763	ND
Naled	43 - 2762	ND
Oxamyl	41 - 2766	ND
Paclobutrazol	40 - 2726	ND
Permethrin	313 - 2795	ND
Phosmet	44 - 2709	ND
Prophos	312 - 2672	ND
Propoxur	41 - 2724	ND
Pyridaben	313 - 2786	ND
Spinosad A	35 - 2253	ND
Spinosad D	52 - 508	ND
Spiromesifen	292 - 2770	ND
Spirotetramat	274 - 2731	ND
Spiroxamine 1	16 - 1206	ND
Spiroxamine 2	21 - 1539	ND
Tebuconazole	277 - 2724	ND
Thiacloprid	44 - 2774	ND
Thiamethoxam	42 - 2785	ND
Trifloxystrobin	44 - 2758	ND

Final Approval



Karen Winternheimer 10Feb2023 06:26:00 AM MST

Somantha Smull

Sam Smith 10Feb2023 06:29:00 AM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/4fada679-bc8f-4e0b-9fa7-a0e79c523e30

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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 4fada679bc8f4e0b9fa7a0e79c523e30.1





900mg CBD Tincture- Natural

Batch ID or Lot Number: 230220F	Test:	Reported:	USDA License:
	Heavy Metals	15Feb2023	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000235008	10Feb2023	NA Status
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	08Feb2023	NA

Dynamic Range (ppm)	Result (ppm)	Notes	
0.06 - 5.87	ND		
0.06 - 5.98	ND		
0.06 - 5.83	ND		
0.06 - 6.02	ND		
	0.06 - 5.87 0.06 - 5.98 0.06 - 5.83	0.06 - 5.87 ND 0.06 - 5.98 ND 0.06 - 5.83 ND	0.06 - 5.87 ND 0.06 - 5.98 ND 0.06 - 5.83 ND

Final Approval

Samantha Smull

Sam Smith 15Feb2023 09:39:00 AM MST

L Wintenheimer APPROVED BY / DATE Karen Winternheimer 15Feb2023 09:42:00 AM MST



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/eb519af1-3e71-468f-b7ed-5e31ec7d6e5f

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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 eb519af13e71468fb7ed5e31ec7d6e5f.1



900mg CBD Tincture- Natural

Batch ID or Lot Number: 230220F	Test: Residual Solvents	Reported: 09Feb2023	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235009	08Feb2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	08Feb2023	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2098	ND	
Butanes (Isobutane, n-Butane)	217 - 4346	ND	
Methanol	68 - 1351	ND	
Pentane	110 - 2196	ND	
Ethanol	113 - 2258	ND	
Acetone	109 - 2184	ND	
Isopropyl Alcohol	113 - 2268	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	110 - 2207	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	108 - 2165	ND	
Toluene	20 - 403	ND	
Xylenes (m,p,o-Xylenes)	152 - 3047	ND	

Final Approval



Karen Winternheimer 09Feb2023 07:32:00 AM MST

Samantha Smoth

APPROVED BY / DATE

Sam Smith 09Feb2023 07:35:00 AM MST



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/7521691a-e463-4625-88ca-1134035c1aa3

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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 7521691ae463462588ca1134035c1aa3.1



900mg CBD Tincture- Natural

Batch ID or Lot Number: 230220F	Test: Mycotoxins	Reported: 17Feb2023	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000235010	16Feb2023	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	08Feb2023	Active

Dynamic Range (ppb)	Result (ppb)	Notes	
2.11 - 136.71	ND	N/A	
0.59 - 33.50	ND		
0.62 - 33.47	ND		
0.59 - 33.93	ND		
0.65 - 34.06	ND		
Total Aflatoxins (B1, B2, G1, and G2)			
	0.59 - 33.50 0.62 - 33.47 0.59 - 33.93 0.65 - 34.06	0.59 - 33.50 ND 0.62 - 33.47 ND 0.59 - 33.93 ND 0.65 - 34.06 ND	0.59 - 33.50 ND 0.62 - 33.47 ND 0.59 - 33.93 ND 0.65 - 34.06 ND

Final Approval

Sam Smith 17Feb2023 06:47:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 17Feb2023 06:51:00 AM MST



PREPARED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/8adf24f2-34e6-44dd-8d1b-f89154be533c

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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.











8adf24f234e644dd8d1bf89154be533c.1





900mg CBD Tincture- Natural

Batch ID or Lot Number: 230220F	Test: Microbial Contaminants	Reported: 13Feb2023	USDA License: N/A		
Matrix:	Test ID:	Started:	Sampler ID:		
Finished Product	T000235007	08Feb2023	N/A		
	Method(s):	Received:	Status:		
	TM25 (qPCR) TM24, TM26, TM27	08Feb2023	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, an 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

Part Tehm

Brett Hudson 12Feb2023 11:55:00 AM MST

Eden Thompson

Eden Thompson-Wright 13Feb2023 04:24:00 PM MST



PREPARED BY / DATE

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/1d1eef77-8e4c-498e-a420-9efc2ca5098f

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

CDPHE Certified 1d1eef778e4c498ea4209efc2ca5098f.1