



CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Organic CBD Tincture - Natural
PRODUCT STRENGTH:	1350mg
TINCTURE BATCH:	240314E
BEST BY DATE:	3/14/2026
HEMP EXTRACT LOT:	230223A

Physical Attributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Olive and Hemp	PASS
Appearance	Internal	Golden to Amber oil in brown glass bottle with dropper.	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 (1350 mg/bottle)	1523mg	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	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† Afltoxin 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

4/26/2024

Quality Certified

Name

Date


1350 mg CBD Tincture- Natural

Batch ID or Lot Number: 240314E	Test: Potency	Reported: 05Mar2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000237151	Started: 03Mar2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 01Mar2023	Status: Active

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.006	0.021	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabidiol (CBD)	0.019	0.057	5.521	55.21	
Cannabidiolic Acid (CBDA)	0.020	0.058	ND	ND	
Cannabidivarin (CBDV)	0.005	0.013	0.026	0.26	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.437	4.37	
Cannabigerolic Acid (CBGA)	0.015	0.051	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.018	0.060	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.055	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.015	0.049	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	0.013	0.13	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.043	ND	ND	
Total Cannabinoids			5.997	59.97	
Total Potential THC			ND	ND	
Total Potential CBD			5.521	55.21	

Final Approval



Karen Winternheimer
05Mar2023
01:28:00 PM MST

PREPARED BY / DATE



Sam Smith
05Mar2023
01:35:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/fe547e11-ef11-46d1-b2cc-00d448c09eb5>

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
fe547e11ef1146d1b2cc00d448c09eb5.1


1350 mg CBD Tincture- Natural

Batch ID or Lot Number: 240314E	Test: Heavy Metals	Reported: 06Mar2023	USDA License: NA
Matrix: Unit Co	Test ID: T000237154	Started: 06Mar2023	Sampler ID: NA
	Method(s): TM19 (ICP-MS): Heavy Metals	Received: 01Mar2023	Status: NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 3.91	ND	
Cadmium	0.04 - 4.16	ND	
Mercury	0.04 - 4.28	ND	
Lead	0.04 - 4.27	ND	

Final Approval


 Sam Smith
 06Mar2023
 01:15:00 PM MST
 PREPARED BY / DATE


 Karen Winternheimer
 06Mar2023
 01:20:00 PM MST
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a3fb308c-7b70-427c-b243-6008479d4968>

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
a3fb308c7b70427cb2436008479d4968.1

1350 mg CBD Tincture- Natural

Batch ID or Lot Number: 240314E	Test: Residual Solvents	Reported: 05Mar2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000237155	Started: 03Mar2023	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 01Mar2023	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	110 - 2205	ND	
Butanes (Isobutane, n-Butane)	226 - 4521	ND	
Methanol	67 - 1336	ND	
Pentane	111 - 2213	ND	
Ethanol	109 - 2171	ND	
Acetone	110 - 2199	ND	
Isopropyl Alcohol	112 - 2248	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	113 - 2253	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	111 - 2219	ND	
Toluene	20 - 393	ND	
Xylenes (m,p,o-Xylenes)	144 - 2883	ND	

Final Approval



Karen Winternheimer
05Mar2023
01:55:00 PM MST

PREPARED BY / DATE



Sam Smith
05Mar2023
01:56:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/1dbbf9db-dbbd-4ccc-90ee-ccce17796c30f>

Definitions

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

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Cert #4329.02

CDPHE Certified

1dbbf9dbdbd4ccc90eeccce17796c30f.1

1350 mg CBD Tincture- Natural

Batch ID or Lot Number: 240314E	Test: Pesticides	Reported: 06Mar2023	USDA License: NA
Matrix: Concentrate	Test ID: T000237152	Started: 05Mar2023	Sampler ID: NA
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 01Mar2023	Status: NA

Pesticides	Dynamic Range (ppb)	Result (ppb)	Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	312 - 2676	ND	Malathion	294 - 2699	ND
Acephate	41 - 2833	ND	Metalaxyl	45 - 2737	ND
Acetamiprid	39 - 2779	ND	Methiocarb	41 - 2727	ND
Azoxystrobin	43 - 2696	ND	Methomyl	37 - 2817	ND
Bifenazate	44 - 2698	ND	MGK 264 1	155 - 1671	ND
Boscalid	41 - 2712	ND	MGK 264 2	112 - 1145	ND
Carbaryl	43 - 2709	ND	Myclobutanil	38 - 2722	ND
Carbofuran	42 - 2706	ND	Naled	42 - 2749	ND
Chlorantraniliprole	40 - 2725	ND	Oxamyl	39 - 2802	ND
Chlorpyrifos	60 - 2785	ND	Pacllobutrazol	45 - 2659	ND
Clofentezine	273 - 2762	ND	Permethrin	296 - 2719	ND
Diazinon	295 - 2731	ND	Phosmet	45 - 2702	ND
Dichlorvos	279 - 2810	ND	Prophos	298 - 2758	ND
Dimethoate	40 - 2788	ND	Propoxur	40 - 2713	ND
E-Fenpyroximate	296 - 2739	ND	Pyridaben	301 - 2724	ND
Etofenprox	36 - 2711	ND	Spinosad A	33 - 2224	ND
Etoxazole	296 - 2711	ND	Spinosad D	48 - 492	ND
Fenoxycarb	40 - 2711	ND	Spiromesifen	278 - 2794	ND
Fipronil	44 - 2774	ND	Spirotetramat	279 - 2716	ND
Flonicamid	51 - 2765	ND	Spiroxamine 1	18 - 1169	ND
Fludioxonil	309 - 2726	ND	Spiroxamine 2	24 - 1530	ND
Hexythiazox	53 - 2723	ND	Tebuconazole	294 - 2694	ND
Imazalil	288 - 2728	ND	Thiacloprid	40 - 2781	ND
Imidacloprid	44 - 2783	ND	Thiamethoxam	41 - 2781	ND
Kresoxim-methyl	47 - 2754	ND	Trifloxystrobin	42 - 2714	ND

Final Approval


 Sam Smith
 06Mar2023
 09:57:00 AM MST

PREPARED BY / DATE


 Karen Winternheimer
 06Mar2023
 10:05:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/181e4250-a973-41c6-bb92-f7fbc6cae57a>

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

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Cert #4329.02
 181e4250a97341c6bb92f7fbc6cae57a.1


1350 mg CBD Tincture- Natural

Batch ID or Lot Number: 240314E	Test: Mycotoxins	Reported: 09Mar2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000237156	Started: 08Mar2023	Sampler ID: N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 01Mar2023	Status: Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.22 - 130.59	ND	N/A
Aflatoxin B1	0.94 - 32.44	ND	
Aflatoxin B2	0.91 - 32.13	ND	
Aflatoxin G1	0.91 - 32.79	ND	
Aflatoxin G2	2.10 - 32.63	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


 Sam Smith
 09Mar2023
 07:45:00 AM MST
 PREPARED BY / DATE


 Karen Winternheimer
 09Mar2023
 07:48:00 AM MST
 APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uiid/0549b4de-cbc8-45be-ab22-4618a17f4166>

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

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Cert #4329.02

CDPHE Certified
0549b4decbc845beab224618a17f4166.1

1350 mg CBD Tincture- Natural

Batch ID or Lot Number: 240314E	Test: Microbial Contaminants	Reported: 28Mar2024	USDA License: N/A
Matrix: Finished Product	Test ID: T000274377	Started: 20Mar2024	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 19Mar2024	Status: Active

Microbial

Contaminants	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
25Mar2024
03:29:00 PM MDT



Brianne Maillot
26Mar2024
06:14:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/985b616c-8006-4e72-a048-f896ce75e33c>

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

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Cert #4329.02

CDPHE Certified

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