

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic CBD Tincture - Pcwtcn
PRODUCT STRENGTH: 1350mg
TINCTURE BATCH: 462; 25C
BEST BY DATE: ; 154248
HEMP EXTRACT LOT: 230308C



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	LOQ**: ≥ product strength mg / bottle	1503mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	Below LOQ	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†† Aflatoxin B1 < 5 ppb Ochratoxin < 5 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS

*Only applies to products with labels claiming certified organic

**Level of Quantification

***Colony Forming Units per Gram

† Parts Per Million †† Part Per Billion

Values expressed in scientific notation.

Examples:

10²=100

10³=1,000

Quality Certified  ; **1546**
 Name _____ Date _____


1350mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number: 240903A	Test: Potency	Reported: 23May2024	USDA License: N/A
Matrix: Unit	Test ID: T000281966	Started: 23May2024	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD)	Received: 22May2024	Status: N/A

Cannabinoids

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.608	5.513	<LOQ	<LOQ	# of Servings = 1, Sample Weight=30g
Cannabichromenic Acid (CBCA)	1.471	5.043	ND	ND	
Cannabidiol (CBD)	6.090	15.154	1503.000	50.10	
Cannabidiolic Acid (CBDA)	6.247	15.542	ND	ND	
Cannabidivarin (CBDV)	1.440	3.584	7.490	0.20	
Cannabidivarinic Acid (CBDVA)	2.606	6.483	ND	ND	
Cannabigerol (CBG)	0.913	3.130	94.500	3.20	
Cannabigerolic Acid (CBGA)	3.817	13.085	ND	ND	
Cannabinol (CBN)	1.191	4.084	ND	ND	
Cannabinolic Acid (CBNA)	2.604	8.928	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.548	15.589	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.130	14.158	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.659	12.544	ND	ND	
Tetrahydrocannabivarin (THCV)	0.831	2.847	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.228	11.064	ND	ND	
Total Cannabinoids			1604.990	53.50	
Total Potential THC			ND	ND	
Total Potential CBD			1503.000	50.10	

Final Approval



Karen Winternheimer
23May2024
02:48:00 PM MDT

PREPARED BY / DATE



Sam Smith
23May2024
02:50:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/e78f0d16-eb20-44ba-9f03-19496fb17b6c>

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



Cert #4329.02
e78f0d16eb2044ba9f0319496fb17b6c.1

17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological.

1350mg Broad Spectrum Tincture- Natural


Batch ID or Lot Number: 240903A	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

Pesticides	Dynamic Range (ppb)	Result (ppb)
Abamectin	312 - 2676	ND
Acephate	41 - 2833	ND
Acetamiprid	39 - 2779	ND
Azoxystrobin	43 - 2696	ND
Bifenazate	44 - 2698	ND
Boscalid	41 - 2712	ND
Carbaryl	43 - 2709	ND
Carbofuran	42 - 2706	ND
Chlorantraniliprole	40 - 2725	ND
Chlorpyrifos	60 - 2785	ND
Clofentezine	273 - 2762	ND
Diazinon	295 - 2731	ND
Dichlorvos	279 - 2810	ND
Dimethoate	40 - 2788	ND
E-Fenpyroximate	296 - 2739	ND
Etofenprox	36 - 2711	ND
Etoxazole	296 - 2711	ND
Fenoxycarb	40 - 2711	ND
Fipronil	44 - 2774	ND
Fonicamid	51 - 2765	ND
Fludioxonil	309 - 2726	ND
Hexythiazox	53 - 2723	ND
Imazalil	288 - 2728	ND
Imidacloprid	44 - 2783	ND
Kresoxim-methyl	47 - 2754	ND

Pesticides	Dynamic Range (ppb)	Result (ppb)
Malathion	294 - 2699	ND
Metalaxyl	45 - 2737	ND
Methiocarb	41 - 2727	ND
Methomyl	37 - 2817	ND
MGK 264 1	155 - 1671	ND
MGK 264 2	112 - 1145	ND
Myclobutanil	38 - 2722	ND
Naled	42 - 2749	ND
Oxamyl	39 - 2802	ND
Paclobutrazol	45 - 2659	ND
Permethrin	296 - 2719	ND
Phosmet	45 - 2702	ND
Prophos	298 - 2758	ND
Propoxur	40 - 2713	ND
Pyridaben	301 - 2724	ND
Spinosad A	33 - 2224	ND
Spinosad D	48 - 492	ND
Spiromesifen	278 - 2794	ND
Spirotetramat	279 - 2716	ND
Spiroxamine 1	18 - 1169	ND
Spiroxamine 2	24 - 1530	ND
Tebuconazole	294 - 2694	ND
Thiacloprid	40 - 2781	ND
Thiamethoxam	41 - 2781	ND
Trifloxystrobin	42 - 2714	ND

Final Approval



Sam Smith
06Mar2023
09:57:00 AM MST

PREPARED BY / DATE



Karen Winterheimer
06Mar2023
10:05:00 AM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/181e4250-a973-41c6-bb92-f7bc6cae57a>

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.



1350mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number: 240903A	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-cce17796c30f>

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.




1350mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number: 240903A	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/uuid/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

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


1350mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number: 240903A	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



PREPARED BY / DATE

Sam Smith
06Mar2023
01:15:00 PM MST



APPROVED BY / DATE

Karen Winternheimer
06Mar2023
01:20:00 PM MST



<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



721 Cortaro Dr.
Sun City Center, FL 33573
www.acslab.com
DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis
Compliance Test

Batch # 240903A Test Reg State: Colorado Production Date: 2024-09-03
Batch Date: 2024-09-03
Extracted From: N/A

Order # PRO240904-010001 Sampling Date: 2024-09-08 Initial Gross Weight: 236.600 g
Order Date: 2024-09-04 Lab Batch Date: 2024-09-08
Sample # AAFX206 Completion Date: 2024-09-13



Product Image

Pathogenic Microbiology Petrifilm
Passed **Passed**

Pathogenic SE (qPCR) - CO
Specimen Weight: 25.100 g

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
E.Coli	Passed	Salmonella	Passed

Passed
SOP13.029 (qPCR)

Microbiology (Petrifilm) - CO
Specimen Weight: 1005.500 mg

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Limit (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Limit (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	10000	<10	Yeast/Mold	10	1000	<10
Total Coliform	10	100	<10				

Passed
SOP13.003 (Petrifilm)

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per CO rule 6 CCR 1010-21. Failed - Analyte/microbe is at the level that equal or above the action limit per CO rule 6 CCR 1010-21 Sample not received via laboratory sampling.

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.