

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Full Spectrum CBD Tincture - Natural
PRODUCT STRENGTH: 2250mg
TINCTURE BATCH: 240813B
BEST BY DATE: 8/3/26
HEMP EXTRACT LOT: 230815A

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive Oil 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*: $\geq$ product strength mg / bottle	2288mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: $<0.3\%$ total THC mg/ bottle (Full spectrum)	.2% 64mg	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

*Level of Quantification

**Colony Forming Units per Gram

† Parts Per Million †† Part Per Billion

Values expressed in scientific notation.

Examples:

$10^2=100$

$10^3=1,000$

Quality Certified

Name

8/22/24

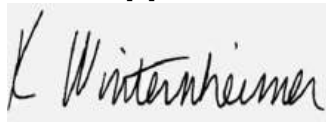
Date

Organic Full Spectrum CBD Tincture - Natural

Batch ID or Lot Number: 240813B	Test: Potency	Reported: 20Sep2023	USDA License: N/A
Matrix: Concentrate	Test ID: T000256043	Started: 20Sep2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 14Sep2023	Status: Active

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.005	0.019	0.244	2.44	
Cannabichromenic Acid (CBCA)	0.005	0.018	ND	ND	
Cannabidiol (CBD)	0.018	0.056	7.710	77.10	
Cannabidiolic Acid (CBDA)	0.019	0.057	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.031	0.31	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabigerol (CBG)	0.003	0.011	0.263	2.63	
Cannabigerolic Acid (CBGA)	0.012	0.045	ND	ND	
Cannabinol (CBN)	0.004	0.014	0.032	0.32	
Cannabinolic Acid (CBNA)	0.008	0.031	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.014	0.054	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.013	0.049	0.218	2.18	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.011	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.010	0.038	ND	ND	
Total Cannabinoids			8.498	84.98	
Total Potential THC			0.218	2.18	
Total Potential CBD			7.710	77.10	

Final Approval

PREPARED BY / DATE

Karen Winternheimer
20Sep2023
03:16:00 PM MDT

APPROVED BY / DATE

Sam Smith
20Sep2023
03:18:00 PM MDT<https://results.botanacor.com/api/v1/coas/uuid/2053f7ef-68ce-4a02-99a8-448e7b564105>**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.



Certificate of Analysis

Compliance Test

Organic Full Spectrum CBD
Tincture - Natural

Batch # 240813B
Batch Date: Extracted
From: HEMP

Test Reg State: Colorado

Order # EVG220906-010001
Sample # 240328G

Initial Gross Weight: 3.220 g



Pesticides - CO

Specimen Weight: 542.760 mg

Dilution Factor: 2.760

Passed
SOP 14.003 (LCMS/GCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
Abamectin	3.1800E-4	250	250	<LOQ	Dodemorph	6.4700E-12	50		<LOQ	Naled	5.8500E-6	100		<LOQ
Acephate	3.9632E-2	50	50	<LOQ	Endosulfan sulfate	8.8376E-1	2500	2500	<LOQ	Novaluron	2.0500E-4	25	25	<LOQ
Acequinocyl	5.7646E-2	30		<LOQ	Endosulfan-alpha	1.2220E+1	2500	2500	<LOQ	Oxamyl	1.6190E-3	1500	1500	<LOQ
Acetamiprid	3.3800E-10	50	50	<LOQ	Endosulfan-beta	2.2760E+1	2500	2500	<LOQ	Paclobutrazol	6.9300E-8	10	10	<LOQ
Aldicarb	2.2744E-2	500	500	<LOQ	Ethionphos	1.5900E-5	10	10	<LOQ	Pentachloronitrobenzen(Quintozone)	4.3900E+0	20		<LOQ
Allethrin	4.7244E-1	100	100	<LOQ	Etofenprox	8.3050E-3	50		<LOQ	Pemethrin	2.2089E-2	500		<LOQ
Atrazine	3.7992E-1	25		<LOQ	Etoxazole	8.3558E-1	20		<LOQ	Phenothrin	2.1200E-7	50		<LOQ
Azinadirachtin	3.0710E-3	500	500	<LOQ	Etridiazole	4.0200E+0	150	150	<LOQ	Phosmet	9.6150E-3	20		<LOQ
Azinxystrobin	1.3247E-2	10	10	<LOQ	Fenhexamid	1.0947E+0	125		<LOQ	Piperonylbutoxide	1.3400E-7	1250	1250	<LOQ
Benzovindiflupyr	1.2567E-2	10	10	<LOQ	Fenoxycarb	3.4507E-1	10	10	<LOQ	Prinimcarb	5.6600E-5	10	10	<LOQ
Bifenazate	2.1700E-8	10	10	<LOQ	Fenpyroximate	4.4800E-7	20		<LOQ	Prallethrin	1.6732E-1	50		<LOQ
Bifenthrin	8.4200E-4	1000		<LOQ	Fensulfothion	7.9400E-4	10	10	<LOQ	Propiconazole	2.1300E-14	10		<LOQ
Boscalid	4.3300E-6	10	10	<LOQ	Fenthion	4.9113E+0	10	10	<LOQ	Propoxur	3.5081E-1	10	10	<LOQ
Buprofezin	1.6600E-9	20		<LOQ	Fenvalerate	5.9775E-1	100		<LOQ	Pyraclostrobin	5.3100E-7	10	10	<LOQ
Carbaryl	1.3800E-5	25	25	<LOQ	Fipronil	2.8847E-2	10	10	<LOQ	Pyrethrins	6.2350E-3	50		<LOQ
Carbofuran	7.7600E-5	10	10	<LOQ	Flonicamid	6.9733E-2	25	25	<LOQ	Pyridaben	8.7500E-15	20	20	<LOQ
Chlorantraniliprole	1.3559E-1	20		<LOQ	Fludioxonil	1.3402E-2	10	10	<LOQ	Pyriproxyfen	9.5800E-5	10		<LOQ
Chlorfenapyr	1.5370E+1	1500	1500	<LOQ	Fluopyram	1.1200E-9	10	10	<LOQ	Resmethrin	6.8013E-2	50	50	<LOQ
Chlorpyrifos	9.0900E-5	500	500	<LOQ	Hexythiazox	6.1900E-5	10		<LOQ	Spinetoram	2.3645E-2	10	10	<LOQ
Clofentezine	3.7100E-7	10	10	<LOQ	Imazalil	2.9500E-4	10	10	<LOQ	Spinosad	5.9903E-1	10	10	<LOQ
Cyfluthrin	3.9900E-4	25	25	<LOQ	Imidacloprid	1.5300E-4	10	10	<LOQ	Spirodiclofen	3.7377E+6	250		<LOQ
Cypermethrin	9.8600E-5	10	10	<LOQ	Iprodione	1.0554E-1	500	500	<LOQ	Spiromesifen	3.2183E-1	3000		<LOQ
Coumaphos	6.0040E-3	10	10	<LOQ	Kinoprene	3.4000E+0	500	1250	<LOQ	Spirotetramat	4.2760E-2	10	10	<LOQ
Cyfluthrin	2.8130E+1	200		<LOQ	Kresoxim Methyl	1.4500E-4	150	150	<LOQ	Spiroxamine	1.2172E+0	100		<LOQ
Cypermethrin	1.1900E-6	300		<LOQ	Lambda Cyhalothrin	1.1686E-1	250		<LOQ	Tebuconazole	1.4800E-14	10	10	<LOQ
Cyprodinil	1.1410E-3	10	10	<LOQ	Malathion	1.3300E-4	10	10	<LOQ	Tebufenozide	1.8121E-2	10	10	<LOQ
Deltamethrin	3.0408E-1	100		<LOQ	Metalaxyl	4.8600E-5	10	10	<LOQ	Teflubenzuron	1.6620E-2	25	25	<LOQ
Diflufenican	4.9284E-1	500		<LOQ	Methiocarb	2.2813E-3	10	10	<LOQ	Tetrachlorvinphos	8.3913E-1	10	10	<LOQ
Diazinon	3.9100E-10	20		<LOQ	Methomyl	1.1500E-6	25	25	<LOQ	Tetramethrin	9.9200E-5	100		<LOQ
Dichlorvos	1.1406E+0	50	50	<LOQ	Methoprene	1.1485E+0	2000		<LOQ	Thiabendazole	1.2510E-3	20		<LOQ
Dimethoate	2.8400E-6	10	10	<LOQ	methyl-Parathion	4.2400E+0	50		<LOQ	Thiacloprid	1.1200E-5	10	10	<LOQ
Dimethomorph	1.5700E-4	50		<LOQ	Mevinphos	4.4200E-5	25	25	<LOQ	Thiamethoxam	2.2500E-6	10	10	<LOQ
Dinotefuran	2.3697E-1	50	50	<LOQ	MG K264	2.5880E-3	50		<LOQ	Thiophanate-methyl	2.2300E-4	50		<LOQ
Diuron	6.8620E-3	125		<LOQ	Myclobutanil	7.0006E-1	10	10	<LOQ	Trifloxystrobin	2.1700E-13	10	10	<LOQ

Xueli Gao
Ph.D., DABT
Lab Toxicologist

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



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (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 (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram

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CERTIFICATE OF ANALYSIS

Organic Full Spectrum CBD Tincture - Natural

Batch ID or Lot Number:

240813B

Test:

Residual Solvents

Matrix:

N/A

Test ID:

T000219850

USDA License:

N/A

Status:

Active

Methods:

TM04 (GC-MS): Residual Solvents

Sampler ID:

N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	70 - 1397	*ND	
Butanes	147 - 2935	*ND	
(Isobutane n-Butane)			
Methanol	48 - 952	*ND	
Pentane	78 - 1557	*ND	
Ethanol	75 - 1503	*ND	
Acetone	78 - 1560	*ND	
Isopropyl Alcohol	79 - 1578	*ND	
Hexane	5 - 95	*ND	
Ethyl Acetate	79 - 1578	*ND	
Benzene	0.2 - 3.2	*ND	
Heptanes	79 - 1570	*ND	
Toluenes	14 - 281	*ND	
Xylenes	104 - 2077	*ND	
(m,p,o-Xylenes)			

Daniel Weidensaul

PREPARED BY / DATE

Jacob Miller

APPROVED BY / DATE

* ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. 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. All decision rulings are in accordance with the METAC and results uploaded to METAC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 432901



Certificate #432902

**botanacor**

CERTIFICATE OF ANALYSIS

Organic Full Spectrum CBD Tincture - Natural**240813B**

Test: _____

Metals

Matrix: Other Test ID: T000219849 USDA License: N/A

Status: Active Method: TM19 (ICP-MS): Heavy Metals Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.54	ND	
Cadmium	0.046 - 4.59	ND	
Mercury	0.044 - 4.45	ND	
Lead	0.045 - 4.48	ND	

Daniel Weidensaul
1:45 PMCourtney Richards
5:18 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.



Certificate #4329.02



SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Organic Full Spectrum CBD Tincture - Natural

Batch ID or Lot Number:

Test:

240813B

Mycotoxins

Matrix:
Concentrate

Test ID:
T000219851

USDA License:
N/A

Status:
Active

Method:
TM18 (UHPLC-QQQ LCMS/MS):
Mycotoxins

Sampler ID:
N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.9 - 126.3	ND	N/A
Aflatoxin B1	0.9 - 30.2	ND	
Aflatoxin B2	0.9 - 30.7	ND	
Aflatoxin G1	1 - 31.1	ND	
Aflatoxin G2	1 - 31.4	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

PREPARED BY / DATE

Jacob Miller
6-Sep-22
3:10 PM

APPROVED BY / DATE

Samantha Smith

Sam Smith
6-Sep-22
3:14 PM

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



Certificate #4329.02



Certificate of Analysis

Compliance Test

Batch # 240813B
Batch Date: 2024-08-13
Extracted From: N/A

Test Reg State: Colorado

Order # PRO240813-010002
Order Date: 2024-08-13
Sample # AAFV858

Sampling Date: 2024-08-15
Lab Batch Date: 2024-08-15
Completion Date: 2024-08-19

Initial Gross Weight: 235.800 g



Product Image



Pathogenic
Passed



Microbiology Petrifilm
Passed

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

Dilution Factor: 1.000

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

Passed
SOP13.029
(qPCR)

Result (cfu/g)
Passed

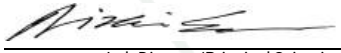


Microbiology (Petrifilm) - CO
Specimen Weight: 999.100 mg

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 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.

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