JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Organic Full Spectrum CBD Tincture - Tropical
PRODUCT STRENGTH:	1350mg
TINCTURE BATCH:	251114A
BEST BY DATE:	11/14/2027
HEMP EXTRACT LOT:	FS Extract: EV24.OFXD.219 and EV24.OFXD.226

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and Hemp, Tropical	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*: ≥ product strength mg / bottle	**1757mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	**61mg 0.2%**	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

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

Values expressed in scientific notation.
Examples:
10^2=100

Quality Certified — Name — 11/26/2025 Date

2519 S Shields St. #1042, Fort Collins, CO 80526
Tel: (833) 569-7223 www.joyorganics.com

Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 61.920 mg/unit

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 1757.400 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1985.070 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8-THC + CBL + CBN

TOTAL CBG: 110.460 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: 0.990 mg/unit

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 39.030 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 5.850 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/10/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±2.1850*	58.580	5.8580
CBG	*0.002 / 0.006*	*±0.1786*	3.682	0.3682
Δ^9-THC	*0.002 / 0.014*	*±0.1133*	2.064	0.2064
CBC	*0.003 / 0.010*	*±0.0419*	1.301	0.1301
CBDV	*0.002 / 0.012*	*±0.0080*	0.195	0.0195
CBL	*0.003 / 0.010*	*±0.0061*	0.165	0.0165
CBN	*0.001 / 0.007*	*±0.0043*	0.149	0.0149
THCV	*0.002 / 0.012*	*±0.0016*	0.033	0.0033
THCVa	*0.002 / 0.019*	*N/A*	<LOQ	<LOQ
CBDa	*0.001 / 0.026*	*N/A*	<LOQ	<LOQ
Δ^8-THC	*0.01 / 0.02*	*N/A*	ND	ND
THCa	*0.001 / 0.005*	*N/A*	ND	ND
CBDVa	*0.001 / 0.018*	*N/A*	ND	ND
CBGa	*0.002 / 0.007*	*N/A*	ND	ND
CBCa	*0.001 / 0.015*	*N/A*	ND	ND
SUM OF CANNABINOIDS			66.169 mg/g	6.6169%

Unit Mass: 30 grams per Unit / Serving Size: 1 gram per Serving

Δ^9-THC per Unit	61.920 mg/unit
Δ^9-THC per Serving	2.064 mg/serving
Total THC per Unit	61.920 mg/unit
Total THC per Serving	2.064 mg/serving
CBD per Unit	1757.400 mg/unit
CBD per Serving	58.580 mg/serving
Total CBD per Unit	1757.400 mg/unit
Total CBD per Serving	58.580 mg/serving
Sum of Cannabinoids per Unit	1985.070 mg/unit
Sum of Cannabinoids per Serving	66.169 mg/serving
Total Cannabinoids per Unit	1985.070 mg/unit
Total Cannabinoids per Serving	66.169 mg/serving

NOTES
Sample serving mass provided by client. Sample unit mass provided by client.

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
721 Cortaro Dr.
Sun City Center, FL 33573
www.acslabcannabis.com
DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Organic Tincture- Tropical 1350mg CBD
Sample Matrix: CBD/HEMP Derivative Products (Ingestion)

Certificate of Analysis

Compliance Test

Order # EVG240402-020001
Batch#:251114A
BatchDate:7/15/2025
Extracted From: hemp

Test Reg State: Colorado

Initial Gross Weight: 11.196 g

Pesticides
Passed

Pesticides - CO

Specimen Weight: 617.500 mg

Passed
SOP14.003 (LCMS/GCMS)

Dilution Factor: 2.430

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
Abamectin	3.1800E-4	100	100	<LOQ
Acephate	3.9632E-2	20	20	<LOQ
Acequinocyl	5.7646E-2	30	30	<LOQ
Acetamiprid	3.3800E-10	50	50	<LOQ
Aldicarb	2.2744E-2	1000	1000	<LOQ
Allethrin	4.7244E-1	200	200	<LOQ
Atrazine	3.7992E-1	25	25	<LOQ
Azadirachtin	3.0710E-3	1000	1000	<LOQ
Azoxystrobin	1.3247E-2	20	20	<LOQ
Benzovindiflupyr	1.2567E-2	20	20	<LOQ
Bifenazate	2.1700E-8	20	20	<LOQ
Bifenthrin	8.4200E-4	1000	1000	<LOQ
Boscalid	4.3300E-6	10	10	<LOQ
Buprofezin	1.6600E-9	20	20	<LOQ
Carbaryl	1.3800E-5	25	25	<LOQ
Carbofuran	7.7600E-5	10	10	<LOQ
Chlorantraniliprole	1.3559E-1	20	20	<LOQ
Chlorfenapyr	1.5370E+1	1500	1500	<LOQ
Chlorpyrifos	9.0900E-5	500	500	<LOQ
Clofentezine	3.7100E-7	10	10	<LOQ
Clothianidin	3.9900E-4	25	25	<LOQ
Coumaphos	9.8600E-5	10	10	<LOQ
Cyantraniliprole	6.0040E-3	10	10	<LOQ
Cyfluthrin	2.8130E+1	200	200	<LOQ
Cypermethrin	1.1900E-6	300	300	<LOQ
Cyprodinil	1.1410E-3	10	10	<LOQ
Daminozide	3.0408E-1	100	100	<LOQ
Deltamethrin	4.9284E-1	500	500	<LOQ
Diazinon	3.9100E-10	20	20	<LOQ
Dichlorvos	1.1406E+0	50	50	<LOQ
Dimethoate	2.8400E-6	10	10	<LOQ
Dimethomorph	1.5700E-4	50	50	<LOQ
Dinotefuran	2.3697E-1	50	50	<LOQ
Diuron	6.8620E-3	125	125	<LOQ
Dodemorph	6.4700E-12	50	50	<LOQ
Endosulfan sulfate	8.8376E-1	2500	2500	<LOQ
Endosulfan-alpha	1.2220E+1	2500	2500	<LOQ
Endosulfan-beta	2.2760E+1	2500	2500	<LOQ
Ethoprophos	1.5900E-5	10	10	<LOQ
Etofenprox	8.3050E-3	50	50	<LOQ
Etoxazole	8.3558E-1	20	20	<LOQ
Etridiazole	4.0200E+0	150	150	<LOQ
Fenhexamid	1.0947E+0	125	125	<LOQ
Fenoxycarb	3.4507E-1	10	10	<LOQ
Fenpyroximate	4.4800E-7	20	20	<LOQ
Fensulfothion	7.9400E-4	10	10	<LOQ
Fenthion	4.9113E+0	10	10	<LOQ
Fenvalerate	5.9775E-1	100	100	<LOQ
Fipronil	2.8847E-2	10	10	<LOQ
Flonicamid	6.9733E-2	25	25	<LOQ
Fludioxonil	1.3402E-2	10	10	<LOQ
Fluopyram	1.1200E-9	10	10	<LOQ
Hexythiazox	6.1900E-5	10	10	<LOQ
Imazalil	2.9500E-4	10	10	<LOQ
Imidacloprid	1.5300E-4	10	10	<LOQ
Iprodione	1.0554E-1	500	500	<LOQ
Kinoprene	3.4000E+0	500	1250	<LOQ
Kresoxim Methyl	1.4500E-4	150	150	<LOQ
Lambda Cyhalothrin	1.1686E-1	250	250	<LOQ
Malathion	1.3300E-4	10	10	<LOQ
Metalaxyl	4.8600E-5	10	10	<LOQ
Methiocarb	2.2810E-3	10	10	<LOQ
Methomyl	1.1500E-6	25	25	<LOQ
Methoprene	1.1485E+0	2000	2000	<LOQ
methyl-Parathion	4.2400E+0	9.6	9.6	<LOQ
Mevinphos	4.4200E-5	25	25	<LOQ
MGK-264	2.5880E-3	50	50	<LOQ
Myclobutanil	7.0006E-1	10	10	<LOQ
Naled	5.8500E-6	100	100	<LOQ
Novaluron	2.0500E-4	25	25	<LOQ
Oxamyl	1.6190E-3	1500	1500	<LOQ
Paclobutrazol	6.9300E-8	10	10	<LOQ
Pentachloronitrobenzen (Quintozene)	4.3900E+0	20	20	<LOQ
Permethrin	2.2089E-2	50	50	<LOQ
Phenothrin	2.1200E-7	50	50	<LOQ
Phosmet	9.6150E-3	20	20	<LOQ
Piperonylbutoxide	1.3400E-7	1250	1250	<LOQ
Pirimicarb	5.6600E-5	10	10	<LOQ
Prallethrin	1.6732E-1	50	50	<LOQ
Propiconazole	2.1300E-14	100	100	<LOQ
Propoxur	3.5081E-1	10	10	<LOQ
Pyraclostrobin	5.3100E-7	10	10	<LOQ
Pyrethrins	6.2350E-3	50	50	<LOQ
Pyridaben	8.7500E-15	20	20	<LOQ
Pyriproxyfen	9.5800E-5	10	10	<LOQ
Resmethrin	6.8013E-2	50	50	<LOQ
Spinetoram	2.3645E-2	10	10	<LOQ
Spinosad	5.9903E-1	10	10	<LOQ
Spirodiclofen	3.7377E+6	250	250	<LOQ
Spiromesifen	3.2183E-1	3000	3000	<LOQ
Spirotetramat	4.2760E-2	10	10	<LOQ
Spiroxamine	1.2172E+0	100	100	<LOQ
Tebuconazole	1.4800E-14	10	10	<LOQ
Tebufenozide	1.8121E-2	10	10	<LOQ
Teflubenzuron	1.6620E-2	25	25	<LOQ
Tetrachlorvinphos	8.3913E-1	10	10	<LOQ
Tetramethrin	9.9200E-5	100	100	<LOQ
Thiabendazole	1.2510E-3	20	20	<LOQ
Thiacloprid	1.1200E-5	10	10	<LOQ
Thiamethoxam	2.2500E-6	10	10	<LOQ
Thiophanate-methyl	2.2300E-4	50	50	<LOQ
Trifloxystrobin	2.1700E-13	10	10	<LOQ

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 * 0.87), 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, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (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.

QA By: 1057 on 2024-04-09 14:34:24 V1

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CERTIFICATE OF ANALYSIS

Organic Tincture- Tropical 1350mg CBD

Batch ID or Lot Number:
251114A

Test: :
Residual Solvents

Matrix:
N/A

Test ID:
T000275442

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)
Propane	100 - 1991	*ND
Butanes (Isobutane, n-Butane)	174 - 3474	*ND
Methanol	63 - 1251	*ND
Pentane	81 - 1621	*ND
Ethanol	92 - 1837	*ND
Acetone	99 - 1979	*ND
Isopropyl Alcohol	103 - 2053	*ND
Hexane	6 - 121	*ND
Ethyl Acetate	100 - 2005	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	92 - 1845	*ND
Toluene	18 - 361	*ND
Xylenes (m,p,o-Xylenes)	128 - 2561	*ND

Notes

Karen Winternheimer
PREPARED BY / DATE

Philip Travisano
APPROVED BY

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

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CERTIFICATE OF ANALYSIS

Organic Tincture- Tropical 1350mg CBD

Batch ID or Lot Number:
251114A

Test:
Mycotoxins

Matrix:
Concentrate

Test ID:
t000275443

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)
Ochratoxin A	2.4 - 133.8	ND
Aflatoxin B1	0.9 - 33.8	ND
Aflatoxin B2	1 - 33.7	ND
Aflatoxin G1	1 - 33.4	ND
Aflatoxin G2	0.9 - 33.9	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes
N/A

Karen Winternheimer
PREPARED BY / DATE

Philip Travisano
APPROVED BY

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

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botanacor

CERTIFICATE OF ANALYSIS

Organic Tincture- Tropical 1350mg CBD

Batch ID or Lot Number:
251114A

Test:
Metals

Matrix:
Concentrate

Test ID:
T000275441

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)
Arsenic	0.046 - 4.64	ND
Cadmium	0.044 - 4.40	ND
Mercury	0.044 - 4.42	ND
Lead	0.044 - 4.38	ND

Notes

Philip Travisano
PREPARED BY / DATE

Colin Hendrickson
APPROVED BY

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.

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Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 11/24/2025 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Salmonella spp.	*Not Detected in 1g*	ND	PASS
Shiga toxin-producing *Escherichia coli*	*Not Detected in 1g*	ND	PASS

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 11/24/2025 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Coliforms	*100*	ND	PASS
Total Aerobic Bacteria	*10000*	ND	PASS
Total Yeast and Mold	*1000*	ND	PASS