JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic CBD Tincture - Orange
PRODUCT STRENGTH: 1350mg
TINCTURE BATCH: 241029B
BEST BY DATE: 10/29/26
HEMP EXTRACT LOT: EV24.OBXD.239

BPhysical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic- Coconut and Hemp, Orange	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	**1614mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	**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
10^2=100 CFU
10^3=1,000 CFU

Quality Certified  11/15/24
Name

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

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

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

Certificate of Analysis

Compliance Test

Batch # 241029B
Batch Date: 2024-10-25
Extracted From: Hemp
Test Reg State: Colorado

Order # PRO241028-010001
Order Date: 2024-10-28
Sample # AAGB898
Statement of Amendment: Updated Potency

Sampling Date: 2024-10-30
Lab Batch Date: 2024-10-30
Orig. Completion Date: 2024-11-05

Initial Gross Weight: 155.500 g
Density: 0.960 g/ml

Number of Units: 2
Net Weight per Unit: 29570.000 mg

Potency Tested
Pathogenic Passed
Microbiology Petrifilm Passed

Product Image

Potency 10

Specimen Weight: 101.620 mg

Tested
SOP13.001 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	(%)
CBD	10.000	5.40E-5	0.015	54.610	5.461
CBN	10.000	1.40E-5	0.015	2.260	0.226
CBC	10.000	1.80E-5	0.015	2.110	0.211
CBG	10.000	2.48E-4	0.015	1.560	0.156
CBDA	10.000	1.00E-5	0.015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.015	<LOQ	<LOQ
Delta-9 THC	10.000	1.30E-5	0.015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.015	<LOQ	<LOQ
Total Active CBD	10.000			54.610	5.461
Total Active THC	10.000			<LOQ	<LOQ

Potency Summary

Total Active THC - None Detected	Total Active CBD 5.461% 1614.818 mg
Total CBG 0.156% 46.129 mg	Total CBN 0.226% 66.828 mg
Total Cannabinoids 6.054% 1790.168 mg	

* *Reflex Tested*

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 THCV = 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. Revised report- see statement of amendment above.

QA By: 1057 on 2024-11-08 18:20:44 V2

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
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CLIA No. 10D1094068

Organic 1350mg CBD Tincture- Orange
Sample Matrix: CBD/HEMP Derivativefl Products (Ingestion)

Certificate of Analysis

Compliance Test

Batch # 241029B **Test Reg State:** Colorado
Batch Date: 2024-06-27 **Extracted From:** Hemp

Order # 240628-010001 **Sampling Date:** 2024-07-02 **Initial Gross Weight:** 11.948 g
Order Date: 2024-06-28 **Lab Batch Date:** 2024-07-02
Sample # AAFS613 **Completion Date:** 2024-07-05

Pesticides
Passed

Product Image

Pesticides - CO

Passed

Specimen Weight: 590.900 mg

SOP14.003 (LCMS/GCMS)

Dilution Factor: 2.540

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)

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QA By: 1150 on 2024-07-05 15:56:46 V1

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CERTIFICATE OF ANALYSIS

Organic 1350mg CBD Tincture- Orange

Batch ID or Lot Number:	Test:	Reported:
241029B	**Mycotoxins**	**7/7/24**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000285481	7/5/24	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	06/28/2024 @ 09:34 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	1.2 - 130.9	ND
Aflatoxin B1	1 - 32.3	ND
Aflatoxin B2	1 - 32	ND
Aflatoxin G1	1.1 - 31.8	ND
Aflatoxin G2	1 - 32.2	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes

N/A

Sam Smith
7-Jul-24
7:13 AM
PREPARED BY / DATE

Karen Winternheimer
7-Jul-24
7:16 AM
APPROVED BY / DATE

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

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CERTIFICATE OF ANALYSIS

Organic 1350mg CBD Tincture- Orange

Batch ID or Lot Number:	Test:	Reported:
241029B	**Metals**	**7/2/24**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000285479	7/2/24	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	06/28/2024 @ 09:34 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.045 - 4.50	ND
Cadmium	0.046 - 4.60	ND
Mercury	0.047 - 4.70	ND
Lead	0.047 - 4.68	ND

Notes

Karen Winternheimer
2-Jul-24
2:26 PM
PREPARED BY / DATE

Sam Smith
2-Jul-24
2:33 PM
APPROVED BY / DATE

Definitions

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

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CERTIFICATE OF ANALYSIS

Organic 1350mg CBD Tincture- Orange

Batch ID or Lot Number:	Test:	Reported:
241029B	**Residual Solvents**	**7/3/24**

Matrix:	Test ID:	Started:	USDA License:
N/A	T000285480	7/2/24	N/A

Status:	Methods:	Received:	Sampler ID:
Active	TM04 (GC-MS): Residual Solvents	06/28/2024 @ 09:34 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	72 - 1446	*ND
Butanes (Isobutane, n-Butane)	149 - 2984	*ND
Methanol	61 - 1228	*ND
Pentane	80 - 1596	*ND
Ethanol	93 - 1854	791
Acetone	96 - 1925	*ND
Isopropyl Alcohol	102 - 2048	*ND
Hexane	6 - 116	*ND
Ethyl Acetate	100 - 1991	*ND
Benzene	0.2 - 4	*ND
Heptanes	92 - 1831	*ND
Toluene	18 - 362	*ND
Xylenes (m,p,o-Xylenes)	130 - 2605	*ND

Notes

Karen Winternheimer
3-Jul-24
9:26 AM
PREPARED BY / DATE

Sam Smith
3-Jul-24
9:31 AM
APPROVED BY / DATE

Definitions

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

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CLIA No. 10D1094068

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

Certificate of Analysis

Compliance Test

Batch # 241029B
Batch Date: 2024-10-25
Extracted From: Hemp

Test Reg State: Colorado

Order # PRO241028-010001
Order Date: 2024-10-28
Sample # AAGB898

Sampling Date: 2024-10-30
Lab Batch Date: 2024-10-30
Orig. Completion Date: 2024-11-05

Initial Gross Weight: 155.500 g
Density: 0.960 g/ml

Number of Units: 2
Net Weight per Unit: 29570.000 mg

Pathogenic SE (qPCR) - CO

Passed

Dilution Factor: 1:000
Specimen Weight: 25.110 g
SOP13.020

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

Microbiology (Petrifilm) - CO

Passed

Specimen Weight: 1000.100 mg
SOP13.003

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				

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

Definitions are found on page 1

QA By: 1057 on 2024-11-08 18:20:44 V2