CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic CBD Tincture - Orange
PRODUCT STRENGTH: 900mg
TINCTURE BATCH: 250923A
BEST BY DATE: 9/23/2027
HEMP EXTRACT LOT: O-1206-0129-FT-BSD

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp, Orange	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 (product strength) mg / bottle	**967mg**	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
10^2=100 CFU
10^3=1,000 CFU

Quality Certified — Name — 10/15/2025 — 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: Not Detected

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 967.830 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1015.710 mg/unit

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

TOTAL CBG: 46.200 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: ND

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 1.680 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/07/2025

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	*0.004 / 0.011*	*±1.2033*	32.261	3.4049
CBG	*0.002 / 0.006*	*±0.0747*	1.540	0.1625
CBDV	*0.002 / 0.012*	*±0.0023*	0.056	0.0059
Δ^9-THC	*0.002 / 0.014*	*N/A*	ND	ND
Δ^8-THC	*0.01 / 0.02*	*N/A*	ND	ND
THCa	*0.001 / 0.005*	*N/A*	ND	ND
THCV	*0.002 / 0.012*	*N/A*	ND	ND
THCVa	*0.002 / 0.019*	*N/A*	ND	ND
CBDa	*0.001 / 0.026*	*N/A*	ND	ND
CBDVa	*0.001 / 0.018*	*N/A*	ND	ND
CBGa	*0.002 / 0.007*	*N/A*	ND	ND
CBL	*0.003 / 0.010*	*N/A*	ND	ND
CBN	*0.001 / 0.007*	*N/A*	ND	ND
CBC	*0.003 / 0.010*	*N/A*	ND	ND
CBCa	*0.001 / 0.015*	*N/A*	ND	ND
SUM OF CANNABINOIDS			33.857 mg/mL	3.5733%

Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliter per Serving

Δ^9-THC per Unit	*110 per-package limit*	ND	PASS
Δ^9-THC per Serving		ND	PASS
Total THC per Unit		ND	
Total THC per Serving		ND	
CBD per Unit		967.830 mg/unit	
CBD per Serving		32.261 mg/serving	
Total CBD per Unit		967.830 mg/unit	
Total CBD per Serving		32.261 mg/serving	
Sum of Cannabinoids per Unit		1015.710 mg/unit	
Sum of Cannabinoids per Serving		33.857 mg/serving	
Total Cannabinoids per Unit		1015.710 mg/unit	
Total Cannabinoids per Serving		33.857 mg/serving	

DENSITY TEST RESULT

0.9475 g/mL

Tested 08/07/2025

Method: QSP 7870 - Sample Preparation

NOTES

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

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CERTIFICATE OF ANALYSIS

Organic Tincture- Orange - 900mg CBD

Batch ID or Lot Number: 250923A	Test, Test ID and Methods: Various	Matrix: Concentrate
Reported: **03Feb2025**	Started: 31Jan2025	Received: 30Jan2025

Residual Solvents - Colorado Compliance

Test ID: T000297931
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	83 - 1670	ND	
Butanes (Isobutane, n-Butane)	165 - 3308	ND	
Methanol	52 - 1035	ND	
Pentane	86 - 1710	ND	
Ethanol	90 - 1806	ND	
Acetone	91 - 1817	ND	
Isopropyl Alcohol	95 - 1900	ND	
Hexane	6 - 110	ND	
Ethyl Acetate	94 - 1872	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	89 - 1782	ND	
Toluene	17 - 331	ND	
Xylenes (m,p,o-Xylenes)	122 - 2430	ND	

Final Approval

Judith Marquez
06Feb2025
07:50:00 AM MST
PREPARED BY / DATE

Sam Smith
06Feb2025
07:56:00 AM MST
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

Organic Tincture- Orange - 900mg CBD

BatchID or Lot Number: 250923A	ID and Methods: Various	Matrix: Concentrate
Reported: **03Feb2025**	Started: 31Jan2025	Received: 30Jan2025

Pesticides

Test ID: T000297928
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	381 - 2759	ND	Malathion	286 - 2743	ND
Acephate	34 - 2749	ND	Metalaxyl	38 - 2758	ND
Acetamiprid	42 - 2758	ND	Methiocarb	38 - 2785	ND
Azoxystrobin	42 - 2753	ND	Methomyl	40 - 2813	ND
Bifenazate	39 - 2790	ND	MGK 264 1	180 - 1624	ND
Boscalid	45 - 2734	ND	MGK 264 2	121 - 1060	ND
Carbaryl	39 - 2680	ND	Myclobutanil	38 - 2746	ND
Carbofuran	41 - 2706	ND	Naled	50 - 2647	ND
Chlorantraniliprole	40 - 2746	ND	Oxamyl	39 - 2825	ND
Chlorpyrifos	44 - 2701	ND	Paclobutrazol	44 - 2652	ND
Clofentezine	280 - 2730	ND	Permethrin	274 - 2782	ND
Diazinon	287 - 2743	ND	Phosmet	39 - 2602	ND
Dichlorvos	283 - 2801	ND	Prophos	286 - 2745	ND
Dimethoate	42 - 2774	ND	Propoxur	41 - 2694	ND
E-Fenpyroximate	267 - 2835	ND	Pyridaben	275 - 2837	ND
Etofenprox	43 - 2749	ND	Spinosad A	32 - 2062	ND
Etoxazole	272 - 2718	ND	Spinosad D	64 - 682	ND
Fenoxycarb	41 - 2722	ND	Spiromesifen	255 - 2820	ND
Fipronil	28 - 2719	ND	Spirotetramat	284 - 2765	ND
Flonicamid	44 - 2818	ND	Spiroxamine 1	14 - 1080	ND
Fludioxonil	279 - 2760	ND	Spiroxamine 2	23 - 1623	ND
Hexythiazox	40 - 2862	ND	Tebuconazole	308 - 2714	ND
Imazalil	282 - 2760	ND	Thiacloprid	42 - 2838	ND
Imidacloprid	39 - 2826	ND	Thiamethoxam	41 - 2821	ND
Kresoxim-methyl	40 - 2752	ND	Trifloxystrobin	45 - 2726	ND

Final Approval

Samantha Smith
Sam Smith
07Feb2025
10:36:00 AM MST
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
07Feb2025
10:38:00 AM MST
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

Organic Tincture- Orange - 900mg CBD

Batch ID or Lot Number: 250923A	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 6
Reported: **03Feb2025**	Started: 31Jan2025	Received: 30Jan2025	

Mycotoxins - Colorado Compliance

Test ID: T000297932
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.63 - 119.61	ND	N/A
Aflatoxin B1	1.02 - 30.28	ND	
Aflatoxin B2	1.04 - 29.76	ND	
Aflatoxin G1	1.04 - 30.28	ND	
Aflatoxin G2	1.07 - 30.68	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
06Feb2025
09:14:00 AM MST
PREPARED BY / DATE

Karen Winternheimer
06Feb2025
09:16:00 AM MST
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000297930
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.25	ND	
Cadmium	0.04 - 4.27	ND	
Mercury	0.05 - 5.31	ND	
Lead	0.04 - 4.44	ND	

Final Approval

Judith Marquez
04Feb2025
01:35:00 PM MST
PREPARED BY / DATE

Sam Smith
04Feb2025
01:38:00 PM MST
APPROVED BY / DATE

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) - 10/03/2025 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) - 10/03/2025 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

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