JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Full Spectrum CBD Tincture - Lime
PRODUCT STRENGTH: 2250mg
TINCTURE BATCH: 241127A
BEST BY DATE: 11/27/2026
HEMP EXTRACT LOT: 230815A

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic -Oilve 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*: ≥ 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†† 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
10^3=1,000

Quality Certified — Name — 12/9/2024 Date

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

SC Labs®
Formerly Botanacor Labs

Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Organic Full Spectrum CBD Tincture - Lime

Batch ID or Lot Number: **241127A**	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

Karen Winternheimer
20Sep2023
03:16:00 PM MDT

PREPARED BY / DATE

Sam Smith
20Sep2023
03:18:00 PM MDT

APPROVED BY / DATE

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)).

Cert #4329.02

CDPHE Certified

2053f7ef68ce4a0299a8448e7b564105.1

)

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE

721 Cortaro Dr.
Sun City Center, FL 33573
www.acslabcannabis.com

Certificate of Analysis

Compliance Test

Organic Full Spectrum CBD Tincture - Lime

Batch # 241127A
Batch Date: Extracted
From: HEMP

Test Reg State: Colorado

Order # 220906-010001
Sample # 240328G

Initial Gross Weight: 3.220 g

Pesticides - CO

Passed

SOP 14.003 (LCMS/GCMS)

Specimen Weight: 542.760 mg

Dilution Factor: 2.760

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	3.3800E10	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	Ethoprophos	1.5900E-5	10	10	<LOQ	Pentachloronitrobenzen(Quintozene)	4.3900E+0	20		<LOQ
Allethrin	4.7244E1	100	100	<LOQ	Etofenprox	8.3050E-3	50		<LOQ	Permethrin	2.2089E-2	500		<LOQ
Atrazine	3.7992E-1	25		<LOQ	Etoxazole	8.3558E-1	20		<LOQ	Phenothrin	2.1200E-7	50		<LOQ
Azadirachtin	3.0710E3	500	500	<LOQ	Etridiazole	4.0200E+0	150	150	<LOQ	Phosmet	9.6150E-3	20		<LOQ
Azoxystrobin	1.3247E-2	10	10	<LOQ	Fenhexamid	1.0947E+0	125		<LOQ	Piperonylbutoxide	1.3400E-7	1250	1250	<LOQ
Benzovindiflupyr	1.2567E2	10	10	<LOQ	Fenoxycarb	3.4507E-1	10	10	<LOQ	Pirimicarb	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	8.4200E4	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	1.3800E5	25	25	<LOQ	Fipronil	2.8847E-2	10	10	<LOQ	Pyrethrins	6.2350E-3	50		<LOQ
Carbofuran	7.7600E5	10	10	<LOQ	Flonicamid	6.9733E-2	25	25	<LOQ	Pyridaben	8.7500E-15	20	20	<LOQ
Chlorantraniliprole	1.3559E1	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	3.7100E7	10	10	<LOQ	Imazalil	2.9500E-4	10	10	<LOQ	Spinosad	5.9903E-1	10	10	<LOQ
Clothianidin	3.9900E-4	25	25	<LOQ	Imidacloprid	1.5300E-4	10	10	<LOQ	Spirodiclofen	3.7377E+6	250		<LOQ
Coumaphos	9.8600E-5	10	10	<LOQ	Iprodione	1.0554E-1	500	500	<LOQ	Spiromesifen	3.2183E-1	3000		<LOQ
Cyantraniliprole	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	1.4800E14	10	10	<LOQ
Cyprodinil	1.1410E-3	10	10	<LOQ	Malathion	1.3300E-4	10	10	<LOQ	Tebufenozide	1.8121E-2	10	10	<LOQ
Daminozide	3.0408E-1	100		<LOQ	Metalaxyl	4.8600E-5	10	10	<LOQ	Teflubenzuron	1.6620E-2	25	25	<LOQ
Deltamethrin	4.9284E-1	500		<LOQ	Methiocarb	2.2810E-3	10	10	<LOQ	Tetrachlorvinphos	8.3913E-1	10	10	<LOQ
Diazinon	3.9100E10	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	2.8400E6	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	MGK264	2.5880E-3	50		<LOQ	Thiophanate-methyl	2.2300E-4	50		<LOQ
Diuron	6.8620E3	125		<LOQ	Myclobutanil	7.0006E-1	10	10	<LOQ	Trifloxystrobin	2.1700E13	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 - Lime

Batch ID or Lot Number:
241127A

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 (Isobutane n-Butane)	147 - 2935	*ND	
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	
Toluene	14 - 281	*ND	
Xylenes (m,p,o-Xylenes)	104 - 2077	*ND	

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 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 Full Spectrum CBD Tincture - Lime

241127A

Test: :
Metals

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

Status:	Method:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	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 PM
PREPARED BY / DATE

Courtney Richards
5:18 PM
APPROVED BY / DATE

Definitions

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

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CERTIFICATE OF ANALYSIS

Organic Full Spectrum CBD Tincture - Lime

Batch ID or Lot Number:	Test:
241127A	**Mycotoxins**

Matrix:	Test ID:	USDA License:
Concentrate	T000219851	N/A

Status:	Method:	Sampler ID:
Active	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	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	

Jacob Miller
6-Sep-22
3:10 PM
PREPARED BY / DATE

Sam Smith
6-Sep-22
3:14 PM
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

SC Labs®

Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 12/07/2024

SAMPLE DETAILS

SAMPLE NAME: OFTKL2250

Infused, Liquid Edible

SAMPLE DETAIL

Batch Number: 241127A
Sample ID: 241203L018

Date Collected: 12/03/2024
Date Received: 12/03/2024
Batch Size:
Sample Size: 1.0 units
Unit Mass: 30 milliliters per Unit
Serving Size: 1 milliliters per Serving

Scan QR code to verify authenticity of results.

SAFETY ANALYSIS - SUMMARY

Microbiology (PCR): PASS **Microbiology (Plating):** ND

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Samantha LeBeau
Job Title: Laboratory Assistant
Date: 12/07/2024

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 12/07/2024

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) - 12/07/2024 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Salmonella spp.	*Not Detected in 25g*	ND	PASS
Shiga toxin-producing *Escherichia coli*	*Not Detected in 25g*	ND	PASS

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

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

MICROBIOLOGY TEST RESULTS (PLATING) - 12/07/2024 **ND**

COMPOUND	RESULT (cfu/g)
Coliforms	ND
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND

NOTES