

CERTIFICATE OF ANALYSIS

PRODUCT NAME: *Joy Organics Full Spectrum CBD Tincture - Key Lime
PRODUCT STRENGTH: 450 mg CBD/Bottle
TINCTURE BATCH: 22074A
BEST BY DATE: 9/10/2023
HEMP EXTRACT LOT: B1211-001

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber.	PASS
Odor	Joy Internal	Characteristic - Coconut, Hemp and Lime.	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	465.7 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	0.052%	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:
 10²=100
 10³=1,000

Quality Certified *Cody Elbrader* 03/23/2022
 Cody Elbrader
 Quality Assurance Technician Date



B1211-001

7USC1639 Certificate of Analysis

sample ID 25408

Stillwater Laboratories

certificate ID OMN52

total cannabinoids 510.4mg per 30mL
THC± 15.1mg CBD± 465.7mg

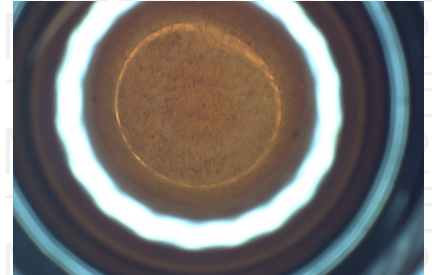
order 9236

7USC1639 Infused

analysis date 12/15/2020 4:57:23 PM

test tag B1211-001

sample wgt 1.0 g



Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample (1.00g) received in a client-labeled bottle, by commercial courier. Labeled 25408 and sample tag B1211-001.

Potency per 30mL

Table with columns: Compound, Amount, LOD, LOQ, error (95%CI k=2). Rows include THC, CBD, and various cannabinoids.

± = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit, LOQ = quantitation limit

Large table with columns: Microbial, Solvents, Metals, Pesticides. Contains various test results and limits.

INSTRUMENTS
potency: HPLC (LC2030C-UV)
terpenes: GCMS (QP2020/HS20)
solvents: GCMS (QP2020/HS20)
pesticides: LCMSMS (LC8060)
mycotoxins: LCMSMS (LC8060)
microbial: qPCR (AriaMx) and plating
metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Handwritten signature of Kyle Larson

Stillwater Laboratories Inc.
MT License L00001, 7, 8
6073 US93N Suite 5
Olney MT 59927
406-881-2019

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Kyle Larson, MSc (Biology)
Deputy Director

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12/17/2020 3:27 PM



ISO/IEC 17025:2017



Certificate #4961.01

https://portal.a2la.org/scopepdf/4961-01.pdf

CERTIFICATE OF ANALYSIS

 Prepared for:
JOY ORGANICS


 5042 Technology Parkway Ste. 500
 FT. COLLINS, CO USA 80528

OFTKL450

Batch ID or Lot Number: 22074A	Test: Microbial Contaminants	Reported: 22Mar2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000197856	Started: 14Mar2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 14Mar2022	Status: N/A

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter Amendment to report T000197856 for batch ID correction, per customer request. SCH 21Mar2022
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


 Sarah Henning
 21Mar2022
 11:39:00 AM MDT

PREPARED BY / DATE



 Carly Bader
 22Mar2022
 03:43:00 PM MDT

APPROVED BY / DATE


<https://results.botanacor.com/api/v1/coas/uuid/6f0df7eb-f951-4162-9ab8-0ccd84b4a2a5>
Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
 CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
 ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
 STEC = Shiga Toxin-Producing E. coli

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. ISO/ IEC 17025:2005 Accredited A2LA.



Cert #4329.02

CDPHE Certified

[6f0df7ebf95141629ab80ccd84b4a2a5.3](https://results.botanacor.com/api/v1/coas/uuid/6f0df7eb-f951-4162-9ab8-0ccd84b4a2a5)