

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Certified Organic Full Spectrum CBD Tincture - Natural

PRODUCT STRENGTH: 900 mg per bottle **TINCTURE BATCH:**

21246B 03/03/2023 **BEST BY DATE: HEMP EXTRACT LOT:** B1211-002

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	nary 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	anel Method Specification		Results*	Pass/Fail	
Potency - Total CBD	HPLC-UV DAD	$LOQ*: \ge product strength \\ mg / bottle$	1010.4 mg	PASS	
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	0.12%	PASS	
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		Below LOQ	PASS		
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 20 ppb Ochratoxin < 20 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: 10^2=100 10^3=1,000

Quality Certified

Kayla Kolber

<u>Kayla Kolber</u> Quality Assurance Technician

09/14/2021

Date



certificate ID

0MN48

B1211-002

7USC1639 Certificate of Analysis

sample ID 25403

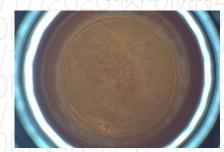
total cannabinoids

1106.8mg

per 30mL

32.7mg CBD‡ 1010.4m Stillwater Laboratories

7USC1639 Infused



order 9236

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

test tag 9236.1.2 sample wgt 1.0 g

Inspection MSP-7.5.1.2

DESCRIPTION: Tincture sample received in a client-labeled bottle, by commercial courier. Labeled 25403 and sample tag 9236.1.2.

Potency per 30mL	MSP-7.5.1.4	LOD LOQ (95%Cl k=2)
tetrahydrocannabolic acid (THCa) Δ9-tetrahydrocannabinol (Δ9 THC)	ND 32.7mg ND	0.06 0.17 ±0.17mg 0.05 0.16 ±0.72mg
Δ8-tetrahydrocannabinol (Δ8 THC) tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa)	ND ND ND	0.07 0.22 ±0.22mg 0.06 0.18 ±0.18mg 0.05 0.15 ±0.15mg
cannabidiol (CBD) cannabidivarin (CBDv)	1010.4mg ND ND	0.06 0.17 ±17.34mg 0.06 0.17 ±0.17mg
cannabigerolic acid (CBGa) cannabigerol (CBG) cannabinol (CBN)	57.6mg 3.5mg	0.05 0.15 ±0.15mg 0.06 0.19 ±1.16mg 0.03 0.09 ±0.15mg
cannabichromene (CBC)	2.6mg	0.06 0.17 ±0.22mg

5000 ppm

890 ppm

2170 ppm

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

Microbial M	ISP-7.5.1.) Z 10 Alimit O	Metals / O M	SP-7.5.1.1	1 Climit	Pesticides	MSP-7.5.1.8	3 limit	Pesticides	MSP-7.5.1.	3 / limit
2/11/20	720		Arsenic	\times	1500 ppb	Daminozide	PASS	0.0 ppm	Piperonylbutoxide	PASS	8.0 ppm
			Cadmium		500 ppb	Dichlorvos		0.0 ppm	Prallethrin	PASS	0.4 ppm
				PASS	500 ppb	Diazinon		0.2 ppm	Propiconazole	PASS	20.0 ppm
Ochratoxin A	PASS	20 ppb	Mercury		/	Dimethoate		0.0 ppm	Propoxur	PASS	0.0 ppm
Aflatoxin			IMINAY (Etoxazole	PASS	1.5 ppm	Pyrethrin	PASS	1.0 ppm
Allatoxiii	17100	_0 PP0				Fenoxycarb	PASS	0.0 ppm	Pyridaben	PASS	3.0 ppm
Solvents	ISP-7.5.1.7	limit	Pesticides	/ISP-7.5.1.	8 limit	Fenpyroximate	PASS	2.0 ppm	Spinetoram	PASS	3.0 ppm
Acetone	PASS	5000 ppm	Abamectin	PASS	0.3 ppm	Fipronil	PASS	0.0 ppm	Spinosad	PASS	3.0 ppm
Acetonitrile	PASS	410 ppm	Acephate		5.0 ppm	Flonicamid	PASS	2.0 ppm	Spiromesifen	PASS	12.0 ppm
Benzene		0 ppm	Acequinocyl		4.0 ppm	Fludioxonil	PASS	30.0 ppm	Spirotetramat	PASS	13.0 ppm
Butane	PASS	5000 ppm	Acetamiprid		5.0 ppm	Hexythiazox	PASS	2.0 ppm	Spiroxamine	PASS	0.0 ppm
Chloroform	PASS	0 ppm	Aldicarb	PASS	0.4 ppm	lmazalil	PASS	0.0 ppm	Tebuconazole	PASS	2.0 ppm
Cyclohexane	PASS	0 ppm	Azoxystrobin	PASS	40.0 ppm	Imidacloprid	PASS	3.0 ppm	Thiacloprid	PASS	0.1 ppm
Ethanol	PASS	10000 ppm	Bifenazate	PASS	5.0 ppm	Malathion	PASS	5.0 ppm	Thiamethoxam	PASS	4.5 ppm
Heptane	PASS	5000 ppm	Bifenthrin	PASS	0.5 ppm	Metalaxyl	PASS	15.0 ppm	Trifloxystrobin	PASS	30.0 ppm
Hexane	PASS	290 ppm	Boscalid	PASS	10.0 ppm	Methiocarb	PASS	0.0 ppm			
Isopropyl alcohol	PASS	5000 ppm	Carbaryl	PASS	0.5 ppm	Methomyl	PASS	0.1 ppm			
Methanol		3000 ppm	Carbofuran	PASS	0.0 ppm	Methyl parathion	PASS	0.0 ppm	INSTRUMENTS		
Pentane	PASS	5000 ppm	Chloantraniliprole	PASS	40.0 ppm	Mevinphos	PASS	0.0 ppm	potency: HPLC (LC	2030C-UV	
		1 _ 1 _ 0 . 1 . 1		△ /	1 _/_ /		D 4 0 0	0.0	pototioy. The LO (LO		

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

0.0 ppm

0.0 ppm

0.5 ppm

0.5 ppm

1.0 ppm

1.0 ppm

Propane PASS

Toluene PASS

Xylenes PASS

Kyle Larson, MSc (Biology) Deputy Director

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Chlorfenapyr PASS

Chlorpyrifos PASS

Clofentezine PASS

Coumaphos PASS

Cypermethrin PASS

Cyfluthrin PASS

12/17/2020 3:04 PM

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Myclobutanil PASS

Phosmet PASS

PASS

PASS

PASS

PASS

Naled

Oxamyl

Paclobutrazol

Permethrin



9.0 ppm

0.5 ppm

0.2 ppm

0.0 ppm

20.0 ppm

0.2 ppm





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

terpenes: GCMS (QP2020/HS20)

solvents: GCMS (QP2020/HS20)

pesticides: LCMSMS (LC8060)

metals: ICPMS (ICPMS-2030)

mycotoxins: LCMSMS (LC8060)

microbial: qPCR (AriaMx) and plating



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

OFTNAT900

Batch ID or Lot Number: Reported: Test: 21246B **Microbial** 9/12/21

Contaminants

Test ID: Started: **USDA License:** Matrix:

Finished Product T000161735 9/8/21 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 09/07/2021 @ 01:17 PM N/A N/A

> TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD LLOQ		ULOQ	Result	
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected	
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

Notes

Free from visual mold, mildew, and foreign matter

Robert Belfon 9/11/2021 3:50:00 PM

Sarah Henning 9/12/2021 12:35:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: $10^2 = 100 CFU$

10^3 = 1.000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

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,





