

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Full Spectrum CBG + CBD Tincture - Mint
PRODUCT STRENGTH: 450mg CBG + 450mg CBD
TINCTURE BATCH: 250911A
BEST BY DATE: 9/11/2027
HEMP EXTRACT LOT: O-1206-0129-FT-BSD

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp, Mint	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	485mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	46mg 0.13%	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  : 464247
 Name _____ Date _____



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: 41.610 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 485.580 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 1238.220 mg/unit

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

TOTAL CBG: 676.170 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 30.840 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: ND

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/16/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBG	0.002 / 0.006	±1.0931	22.539	2.2539
CBD	0.004 / 0.011	±0.6037	16.186	1.6186
Δ^9 -THC	0.002 / 0.014	±0.0761	1.387	0.1387
CBC	0.003 / 0.010	±0.0331	1.028	0.1028
CBL	0.003 / 0.010	±0.0039	0.106	0.0106
CBN	0.001 / 0.007	±0.0008	0.028	0.0028
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
CBDV	0.002 / 0.012	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			41.274 mg/g	4.1274%

Unit Mass: 30 grams per Unit / Serving Size: 1 gram per Serving

Δ^9 -THC per Unit	110 per-package limit	41.610 mg/unit	PASS
Δ^9 -THC per Serving		1.387 mg/serving	PASS
Total THC per Unit		41.610 mg/unit	
Total THC per Serving		1.387 mg/serving	
CBD per Unit		485.580 mg/unit	
CBD per Serving		16.186 mg/serving	
Total CBD per Unit		485.580 mg/unit	
Total CBD per Serving		16.186 mg/serving	
Sum of Cannabinoids per Unit		1238.220 mg/unit	
Sum of Cannabinoids per Serving		41.274 mg/serving	
Total Cannabinoids per Unit		1238.220 mg/unit	
Total Cannabinoids per Serving		41.274 mg/serving	

DENSITY TEST RESULT

0.9164 g/mL

Tested 08/16/2025

Method: QSP 7870 - Sample Preparation

NOTES

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

Organic Full Spectrum 450mg CBG + 450mg CBD Tincture - Mint

Batch ID or Lot Number: 250911A	Test, Test ID and Methods: Various	Matrix: Concentrate
Reported: 03Feb2025	Started: 31Jan2025	Received: 30Jan2025

**Residual Solvents -
Colorado Compliance**

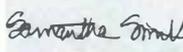
Test ID: T000297931

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

Organic Full Spectrum 450mg CBG + 450mg CBD Tincture - Mint

BatchID or Lot Number: 250911A
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	Oxaryl	39 - 2825	ND
Chlorpyrifos	44 - 2701	ND	Paclitubtrazol	44 - 2652	ND
Clofentezine	280 - 2730	ND	Permethrin	274 - 2782	ND
Diazinon	287 - 2743	ND	Phosmet	39 - 2602	ND
Dichlorvos	283 - 2801	ND	Propfos	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
Fonicamid	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

Sam 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

Organic Full Spectrum 450mg CBG + 450mg CBD Tincture - Mint

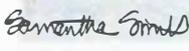
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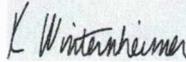
Mycotoxins - Colorado Compliance

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

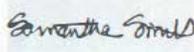
Heavy Metals - Colorado Compliance

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

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

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

MICROBIOLOGY TEST RESULTS (PCR) - 09/23/2025 ✔ PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
<i>Salmonella</i> spp.	Not Detected in 1g	ND	PASS
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS

MICROBIOLOGY TEST RESULTS (PLATING) - 09/23/2025 ND

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