

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Full Spectrum CBG + CBD Tincture - Mint
PRODUCT STRENGTH: 457mg CBD + 461mg CBG
TINCTURE BATCH: 220912C
BEST BY DATE: 9/12/2024
HEMP EXTRACT LOT: FM372 220329 TCT-CUS-JYO-305

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	457mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	18mg	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 < 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  _____ Date 9/30/22

Name _____ Date _____

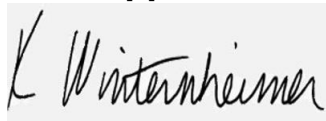
CBD+CBG 450- 220912C

Batch ID or Lot Number: 220901C	Test: Potency	Reported: 09Sep2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000220549	Started: 07Sep2022	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 07Sep2022	Status: Active

Cannabinoids

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.018	0.053	0.090	0.90	
Cannabichromenic Acid (CBCA)	0.016	0.049	ND	ND	
Cannabidiol (CBD)	0.051	0.142	1.656	16.56	
Cannabidiolic Acid (CBDA)	0.052	0.145	ND	ND	
Cannabidivarin (CBDV)	0.012	0.033	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.022	0.061	ND	ND	
Cannabigerol (CBG)	0.010	0.030	1.673	16.73	
Cannabigerolic Acid (CBGA)	0.042	0.126	ND	ND	
Cannabinol (CBN)	0.013	0.039	ND	ND	
Cannabinolic Acid (CBNA)	0.028	0.086	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.049	0.151	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.045	0.137	0.068	0.68	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.040	0.121	ND	ND	
Tetrahydrocannabivarin (THCV)	0.009	0.027	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.035	0.107	ND	ND	
Total Cannabinoids			3.487	34.87	
Total Potential THC			0.068	0.68	
Total Potential CBD			1.656	16.56	

Final Approval



Karen Winternheimer
09Sep2022
02:31:00 PM MDT

PREPARED BY / DATE



Jacob Miller
09Sep2022
02:44:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/54c8b603-4a45-45ad-89bc-03bfe534d592>

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)).

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. 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. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02

CDPHE Certified

54c8b603a4545ad89bc03bfe534d592.1

CBD+CBG 450- 220912C

Batch ID or Lot Number: 220901C	Test: Microbial Contaminants	Reported: 12Sep2022	USDA License: N/A
Matrix: Finished Product	Test ID: T000220763	Started: 08Sep2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 07Sep2022	Status: Active

Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<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



Brianne Maillot
11Sep2022
04:02:00 PM MDT



Brett Hudson
12Sep2022
09:52:00 AM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/8b4c1c59-026b-4d58-b8d4-e71dff5e3aa2>

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

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Cert #4329.02

CDPHE Certified

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Certificate of Analysis

ICAL ID: 20220331-015
Sample: CA220331-016-032
450mg CBG: 450mg CBD FSD Olive Oil Tincture
Category: Ingestible

Batch#: FM372_220329_TCT-CUS-JYO-305

Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status			
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g			
1,2-Dichloro-Ethane	ND	0.31	0.103	1	Pass	Acetone	ND	51.246	2.572	5000	Pass	n-Hexane	ND	0.9313	0.3104	290	Pass
Benzene	ND	0.088	0.029	1	Pass	Acetonitrile	ND	0.798	0.266	410	Pass	Isopropanol	ND	5.0373	1.6791	5000	Pass
Chloroform	ND	0.174	0.058	1	Pass	Butane	ND	4.849	1.114	5000	Pass	Methanol	ND	4.6648	1.5549	3000	Pass
Ethylene Oxide	ND	0.757	0.252	1	Pass	Ethanol	ND	40.542	13.514	5000	Pass	Pentane	ND	17.255	5.752	5000	Pass
Methylene-Chloride	ND	0.7288	0.1475	1	Pass	Ethyl-Acetate	ND	2.288	0.436	5000	Pass	Propane	ND	26.109	8.703	5000	Pass
Trichloroethene	ND	0.19	0.063	1	Pass	Ethyl-Ether	ND	2.869	0.593	5000	Pass	Toluene	ND	0.864	0.135	890	Pass
						Heptane	ND	6.548	2.183	5000	Pass	Xylenes	ND	2.572	0.558	2170	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

Heavy Metal Screening

	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.009	0.003	1.5	Pass
Cadmium	ND	0.002	0.001	0.5	Pass
Lead	ND	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	3	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Aspergillus flavus		NR	NT
Aspergillus fumigatus		NR	NT
Aspergillus niger		NR	NT
Aspergillus terreus		NR	NT
STEC		Not Detected	Pass
Salmonella SPP		Not Detected	Pass

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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04/04/2022

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



Certificate of Analysis

ICAL ID: 20220331-015
Sample: CA220331-016-032
Joy Organics - 450mg CBG; 450mg CBD FSD Olive Tincture
Lic. #
Category: Ingestible

Batch#: FM372_220329_TCT-CUS-JYO-305

Chemical Residue Screening

Category 1	LOQ	LOD	Status	
	µg/g	µg/g	µg/g	
Aldicarb	ND	0.030	0.009	Pass
Carbofuran	ND	0.030	0.002	Pass
Chlordane	ND	0.075	0.025	Pass
Chlorfenapyr	ND	0.075	0.025	Pass
Chlorpyrifos	ND	0.030	0.008	Pass
Coumaphos	ND	0.030	0.005	Pass
Daminozide	ND	0.033	0.011	Pass
Dichlorvos	ND	0.030	0.007	Pass
Dimethoate	ND	0.030	0.007	Pass
Ethoprophos	ND	0.030	0.004	Pass
Etofenprox	ND	0.030	0.006	Pass
Fenoxycarb	ND	0.030	0.006	Pass
Fipronil	ND	0.030	0.008	Pass
Imazalil	ND	0.030	0.009	Pass
Methiocarb	ND	0.030	0.005	Pass
Mevinphos	ND	0.032	0.011	Pass
Paclobutrazol	ND	0.030	0.006	Pass
Parathion Methyl	ND	0.024	0.008	Pass
Propoxur	ND	0.030	0.005	Pass
Spiroxamine	ND	0.030	0.003	Pass
Thiacloprid	ND	0.030	0.002	Pass

Mycotoxins	LOQ	LOD	Limit	Status	
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	ND	6.2	2.05	Tested	
B2	ND	5	1.63	Tested	
G1	ND	5.38	1.77	Tested	
G2	ND	5	1.02	Tested	
Ochratoxin A	ND	16.41	5.42	20	Pass
Total Aflatoxins	ND			20	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.039	0.013	0.3	Pass
Acephate	ND	0.063	0.021	5	Pass
Acequinocyl	ND	0.035	0.011	4	Pass
Acetamiprid	ND	0.030	0.006	5	Pass
Azoxystrobin	ND	0.030	0.003	40	Pass
Bifenazate	ND	0.030	0.005	5	Pass
Bifenthrin	ND	0.030	0.006	0.5	Pass
Boscalid	ND	0.030	0.007	10	Pass
Captan	ND	0.358	0.120	5	Pass
Carbaryl	ND	0.030	0.004	0.5	Pass
Chlorantraniliprole	ND	0.030	0.006	40	Pass
Clofentezine	ND	0.030	0.005	0.5	Pass
Cyfluthrin	ND	0.056	0.019	1	Pass
Cypermethrin	ND	0.044	0.015	1	Pass
Diazinon	ND	0.030	0.009	0.2	Pass
Dimethomorph	ND	0.030	0.009	20	Pass
Etoxazole	ND	0.030	0.003	1.5	Pass
Fenhexamid	ND	0.030	0.008	10	Pass
Fenpyroximate	ND	0.030	0.005	2	Pass
Flonicamid	ND	0.046	0.015	2	Pass
Fludioxonil	ND	0.048	0.016	30	Pass
Hexythiazox	ND	0.031	0.010	2	Pass
Imidacloprid	ND	0.030	0.009	3	Pass

Category 2	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.030	0.007	1	Pass
Malathion	ND	0.030	0.005	5	Pass
Metalaxyl	ND	0.030	0.003	15	Pass
Methomyl	ND	0.030	0.006	0.1	Pass
Myclobutanil	ND	0.030	0.007	9	Pass
Naled	ND	0.030	0.005	0.5	Pass
Oxamyl	ND	0.030	0.009	0.3	Pass
Pentachloronitrobenzene	ND	0.054	0.018	0.2	Pass
Permethrin	ND	0.030	0.002	20	Pass
Phosmet	ND	0.030	0.005	0.2	Pass
Piperonyl Butoxide	ND	0.030	0.006	8	Pass
Prallethrin	ND	0.055	0.018	0.4	Pass
Propiconazole	ND	0.037	0.012	20	Pass
Pyrethrins	ND	0.030	0.002	1	Pass
Pyridaben	ND	0.030	0.005	3	Pass
Spinetoram	ND	0.030	0.003	3	Pass
Spinosad	ND	0.030	0.003	3	Pass
Spiromesifen	ND	0.030	0.005	12	Pass
Spirotetramat	ND	0.030	0.006	13	Pass
Tebuconazole	ND	0.030	0.009	2	Pass
Thiamethoxam	ND	0.030	0.006	4.5	Pass
Trifloxystrobin	ND	0.030	0.002	30	Pass

Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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04/04/2022

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