

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Delta 9 THC Tincture (Citrus)
PRODUCT STRENGTH: 900mg CBD + 75mg THC per bottle
TINCTURE BATCH: 241111G
BEST BY DATE: 11/11/2026
HEMP EXTRACT LOT: 606

Physical Attributes


Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp - Citrus	PASS
Appearance	Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	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	*NLT (product strength) mg / bottle	1198mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	77mg	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Below LOQ	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Below LOQ	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 Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS

* Level of Quantitation, † Parts Per Million
 ‡ Part Per Billion CFU/g=Colony Forming Units per Gram
 *Nothing Less Than
 10²=100 CFU
 10³=1,000 CFU

Quality Certified



 Name

12/5/2024

Date

Organic Full Spectrum Tincture- Citrus


Batch ID or Lot Number:241111G	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: 28Mar2023	Started: 27Mar2023	Received: 24Mar2023	


Cannabinoids - Colorado Compliance

Test ID: T000239188
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.020	0.028	0.28	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabidiol (CBD)	0.020	0.054	4.032	40.32	
Cannabidiolic Acid (CBDA)	0.020	0.056	ND	ND	
Cannabidivarin (CBDV)	0.005	0.013	0.018	0.18	
Cannabidivarinic Acid (CBDVA)	0.009	0.023	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.041	0.41	
Cannabigerolic Acid (CBGA)	0.017	0.049	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.026	0.26	
Cannabinolic Acid (CBNA)	0.011	0.033	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.058	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.018	0.053	0.262	2.62	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.041	ND	ND	
Total Cannabinoids			4.407	44.07	
Total Potential THC			0.262	2.62	
Total Potential CBD			4.032	40.32	

Final Approval


 Sam Smith
 28Mar2023
 08:52:00 AM MDT
 PREPARED BY / DATE


 Karen Winternheimer
 28Mar2023
 08:56:00 AM MDT
 APPROVED BY / DATE

Organic Full Spectrum Tincture- Citrus

Batch ID or Lot Number:241111G	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 5
Reported: 28Mar2023	Started: 27Mar2023	Received: 24Mar2023	


Pesticides


Test ID: T000239189

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	374 - 2672	ND		Malathion	279 - 2740	ND
Acephate	18 - 2844	ND		Metalaxyl	44 - 2755	ND
Acetamiprid	40 - 2758	ND		Methiocarb	40 - 2669	ND
Azoxystrobin	45 - 2727	ND		Methomyl	42 - 2802	ND
Bifenazate	41 - 2784	ND		MGK 264 1	175 - 1559	ND
Boscalid	66 - 2638	ND		MGK 264 2	119 - 1122	ND
Carbaryl	43 - 2727	ND		Myclobutanil	47 - 2696	ND
Carbofuran	42 - 2705	ND		Naled	50 - 2695	ND
Chlorantraniliprole	42 - 2649	ND		Oxamyl	44 - 2792	ND
Chlorpyrifos	55 - 2672	ND		Paclobutrazol	49 - 2706	ND
Clofentezine	293 - 2709	ND		Permethrin	261 - 2620	ND
Diazinon	289 - 2767	ND		Phosmet	40 - 2745	ND
Dichlorvos	274 - 2725	ND		Prophos	296 - 2692	ND
Dimethoate	40 - 2753	ND		Propoxur	40 - 2711	ND
E-Fenpyroximate	287 - 2726	ND		Pyridaben	311 - 2711	ND
Etofenprox	48 - 2703	ND		Spinosad A	34 - 2208	ND
Etoxazole	306 - 2700	ND		Spinosad D	54 - 492	ND
Fenoxycarb	43 - 2757	ND		Spiromesifen	284 - 2702	ND
Fipronil	39 - 2784	ND		Spirotetramat	276 - 2790	ND
Flonicamid	42 - 2787	ND		Spiroxamine 1	19 - 1142	ND
Fludioxonil	333 - 2624	ND		Spiroxamine 2	24 - 1509	ND
Hexythiazox	45 - 2742	ND		Tebuconazole	274 - 2734	ND
Imazalil	289 - 2748	ND		Thiacloprid	43 - 2751	ND
Imidacloprid	40 - 2751	ND		Thiamethoxam	44 - 2778	ND
Kresoxim-methyl	43 - 2817	ND		Trifloxystrobin	40 - 2722	ND

Final Approval


 Karen Winternheimer
 30Mar2023
 12:35:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 30Mar2023
 12:51:00 PM MDT
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Organic Full Spectrum Tincture- Citrus


Batch ID or Lot Number: 241111G	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: 28Mar2023	Started: 27Mar2023	Received: 24Mar2023	


**Residual Solvents -
Colorado Compliance**

Test ID: T000239192
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	108 - 2166	ND	
Butanes (Isobutane, n-Butane)	221 - 4430	ND	
Methanol	65 - 1306	ND	
Pentane	109 - 2173	ND	
Ethanol	106 - 2110	ND	
Acetone	105 - 2107	ND	
Isopropyl Alcohol	108 - 2159	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	106 - 2124	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	107 - 2141	ND	
Toluene	19 - 373	ND	
Xylenes (m,p,o-Xylenes)	132 - 2646	ND	

Final Approval


 Karen Winternheimer
 30Mar2023
 03:04:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 30Mar2023
 03:07:00 PM MDT
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Organic Full Spectrum Tincture- Citrus

Batch ID or Lot Number:241111G	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported: 28Mar2023	Started: 27Mar2023	Received: 24Mar2023	

Microbial Contaminants - Colorado Compliance

Test ID: T000239190
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	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



 Eden Thompson-Wright 01Apr2023 09:30:00 AM MDT	 Brianne Maillot 02Apr2023 02:52:00 PM MDT
PREPARED BY / DATE	APPROVED BY / DATE

Mycotoxins - Colorado Compliance

Test ID: T000239193
Methods: TM18 (UHPLC-QQQ)
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.52 - 132.57	ND	N/A
Aflatoxin B1	0.96 - 33.29	ND	
Aflatoxin B2	0.93 - 32.86	ND	
Aflatoxin G1	1.06 - 32.83	ND	
Aflatoxin G2	0.96 - 32.66	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

 Sam Smith 05Apr2023 11:49:00 AM MDT	 Karen Winternheimer 05Apr2023 11:51:00 AM MDT
PREPARED BY / DATE	APPROVED BY / DATE

Organic Full Spectrum Tincture- Citrus


Batch ID or Lot Number:241111G	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 5
Reported: 28Mar2023	Started: 27Mar2023	Received: 24Mar2023	


**Heavy Metals -
Colorado Compliance**

Test ID: T000239191
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.06	ND	
Cadmium	0.05 - 4.56	ND	
Mercury	0.04 - 4.27	ND	
Lead	0.05 - 4.52	ND	

Final Approval


PREPARED BY / DATE
Sam Smith
05Apr2023
03:03:00 PM MDT


APPROVED BY / DATE
Karen Winternheimer
05Apr2023
03:31:00 PM MDT



<https://results.botanacor.com/api/v1/coas/uuid/88c26460-9cbd-4d5f-b7d9-be422325e044>

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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.

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. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



Cert #4329.02
88c264609cbd4d5fb7d9be422325e044.1



Certificate of Analysis
Compliance Test

Batch # 241111G Test Reg State: Colorado
Batch Date: 2024-11-11
Extracted From: hemp

Order # PRO241115-040001 Sampling Date: 2024-11-18 Initial Gross Weight: 236.100 g
Order Date: 2024-11-15 Lab Batch Date: 2024-11-18
Sample # AAGD628 Completion Date: 2024-11-22

Pathogenic Passed **Microbiology Petrifilm Passed**

Product Image

Pathogenic SE (qPCR) - CO
Specimen Weight: 25.200 g
Dilution Factor: 1.000
Result (cfu/g) Analyte
Passed Salmonella

Passed
SOP13.029 (qPCR)
Result (cfu/g)
Passed

Microbiology (Petrifilm) - CO
Specimen Weight: 991.700 mg
Dilution Factor: 1.000
Result (cfu/g) Analyte LOQ (cfu/g) Action Limit (cfu/g)
Aerobic Bacteria 10 10000 <10
Total Coliform 10 100 <10

Passed
SOP13.003 (Petrifilm)
Result (cfu/g) Analyte LOQ (cfu/g) Action Limit (cfu/g)
Yeast/Mold 10 1000 <10

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (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, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per CO rule 6 CCR 1010-21. Failed - Analyte/microbe is at the level that equal or above the action limit per CO rule 6 CCR 1010-21 Sample not received via laboratory sampling.
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