CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Full Spectrum CBD Tincture - Tropical
PRODUCT STRENGTH: 1350mg
TINCTURE BATCH: 230301A
BEST BY DATE: 3/1/2025
HEMP EXTRACT LOT: 221207A

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp, Tropical	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	LOQ**: ≥ product strength mg / bottle	**1575mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.3% total THC (Full spectrum)	**46mg**	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

*Only applies to products with labels claiming certified organic
**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 — Name — 3/7/2023 — Date

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CERTIFICATE OF ANALYSIS

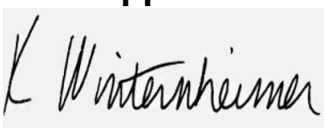
Organic 1350mg Tropical Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230301A	**Potency**	**10Dec2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000230173	08Dec2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 08Dec2022	Status: Active

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.006	0.022	0.210	2.10	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabidiol (CBD)	0.018	0.058	5.527	55.27	
Cannabidiolic Acid (CBDA)	0.019	0.060	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.004	0.014	0.040	0.40	
Cannabidivarinic Acid (CBDVA)	0.008	0.025	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.120	1.20	
Cannabigerolic Acid (CBGA)	0.015	0.052	ND	ND	
Cannabinol (CBN)	0.005	0.016	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.010	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.017	0.061	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.056	0.164	1.64	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.049	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.044	ND	ND	
Total Cannabinoids			**6.061**	**60.61**	
Total Potential THC			0.164	1.64	
Total Potential CBD			5.527	55.27	

Final Approval



Karen Winternheimer
10Dec2022
01:35:00 PM MST

PREPARED BY / DATE



Sam Smith
10Dec2022
01:37:00 PM MST

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/92fe9e23-4c7f-4ea0-85fc-046a20f5ccb0

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

Certified Test Laboratory

CDPHE Certified

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CERTIFICATE OF ANALYSIS

Organic 1350mg Tropical Tincture

Batch ID: 230301A		**Test ID:**	T000126133
Type:	Concentrate	**Submitted:**	02/25/2021 @ 12:03 PM
Test:	Metals	**Started:**	3/2/2021
Method:	TM19	**Reported:**	3/3/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.092 - 9.20	ND
Cadmium	0.095 - 9.53	ND
Mercury	0.095 - 9.55	ND
Lead	0.095 - 9.52	ND

* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL



Daniel Weidensaul
3-Mar-2021
11:00 AM

PREPARED BY / DATE



Ben Minton
3-Mar-2021
12:36 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

Organic 1350mg Tropical Tincture

Batch ID: 230301A		**Test ID:**	T000126134
Type:	Concentrate	**Submitted:**	02/25/2021 @ 12:03 PM
Test:	Residual Solvents	**Started:**	3/2/2021
Method:	TM04	**Reported:**	3/2/2021

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	96 - 1911	*ND
Butanes (Isobutane, n-Butane)	178 - 3556	*ND
Methanol	53 - 1054	*ND
Pentane	91 - 1816	*ND
Ethanol	92 - 1838	*ND
Acetone	92 - 1849	*ND
Isopropyl Alcohol	97 - 1933	*ND
Hexane	6 - 116	*ND
Ethyl Acetate	96 - 1919	*ND
Benzene	0.2 - 3.7	*ND
Heptanes	92 - 1838	*ND
Toluene	17 - 335	*ND
Xylenes (m,p,o-Xylenes)	118 - 2359	*ND

* ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
N/A

FINAL APPROVAL



Ryan Weems
2-Mar-2021
3:08 PM

PREPARED BY / DATE



Ben Minton
2-Mar-2021
6:32 PM

APPROVED BY / DATE

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Organic 1350mg Tropical Tincture

Batch ID:230301A		**Test ID:**	T000126131
Type:	Concentrate	**Submitted:**	02/25/2021 @ 12:03 PM
Test:	Pesticides	**Started:**	2/25/2021
Method:	TM17	**Reported:**	3/1/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	34 - 2468	ND*
Acetamiprid	40 - 2468	ND*
Abamectin	>342	ND*
Azoxystrobin	42 - 2468	ND*
Bifenazate	28 - 2468	ND*
Boscalid	42 - 2468	ND*
Carbaryl	38 - 2468	ND*
Carbofuran	39 - 2468	ND*
Chlorantraniliprole	37 - 2468	ND*
Chlorpyrifos	42 - 2468	ND*
Clofentezine	269 - 2468	ND*
Diazinon	280 - 2468	ND*
Dichlorvos	>286	ND*
Dimethoate	40 - 2468	ND*
E-Fenpyroximate	279 - 2468	ND*
Etofenprox	41 - 2468	ND*
Etoxazole	289 - 2468	ND*
Fenoxycarb	>31	ND*
Fipronil	38 - 2468	ND*
Flonicamid	38 - 2468	ND*
Fludioxonil	>286	ND*
Hexythiazox	36 - 2468	ND*
Imazalil	272 - 2468	ND*
Imidacloprid	41 - 2468	ND*
Kresoxim-methyl	43 - 2468	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	291 - 2468	ND*
Metalaxyl	39 - 2468	ND*
Methiocarb	38 - 2468	ND*
Methomyl	42 - 2468	ND*
MGK 264 1	160 - 2468	ND*
MGK 264 2	101 - 2468	ND*
Myclobutanil	38 - 2468	ND*
Naled	41 - 2468	ND*
Oxamyl	38 - 2468	ND*
Paclobutrazol	40 - 2468	ND*
Permethrin	269 - 2468	ND*
Phosmet	41 - 2468	ND*
Prophos	298 - 2468	ND*
Propoxur	38 - 2468	ND*
Pyridaben	281 - 2468	ND*
Spinosad A	30 - 2468	ND*
Spinosad D	76 - 2468	ND*
Spiromesifen	>273	ND*
Spirotetramat	>299	ND*
Spiroxamine 1	17 - 2468	ND*
Spiroxamine 2	22 - 2468	ND*
Tebuconazole	285 - 2468	ND*
Thiacloprid	42 - 2468	ND*
Thiamethoxam	38 - 2468	ND*
Trifloxystrobin	40 - 2468	ND*

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL



Tyler Wiese
1-Mar-2021
12:03 PM

PREPARED BY / DATE



Ben Minton
1-Mar-2021
1:06 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

Organic 1350mg Tropical Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
230301A	**Mycotoxins**	**21Oct2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000223802	19Oct2022	N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 07Oct2022	Status: Active

Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.29 - 118.48	ND	N/A
Aflatoxin B1	0.85 - 30.17	ND	
Aflatoxin B2	2.29 - 29.70	ND	
Aflatoxin G1	0.97 - 29.91	ND	
Aflatoxin G2	1.18 - 29.79	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Samantha Smith

Sam Smith
21Oct2022
10:29:00 AM MDT

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
21Oct2022
10:31:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/8ccc393e-3ea3-4eb0-90d5-8e4c9ec4fb5e

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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CERTIFICATE OF ANALYSIS

Organic 1350mg Tropical Tincture

Batch ID or Lot Number: **230301A**	Test: **Microbial Contaminants**	Reported: **06Mar2023**	USDA License: N/A
Matrix: Finished Product	Test ID: T000237341	Started: 02Mar2023	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 02Mar2023	Status: Active

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
Salmonella	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
05Mar2023
01:13:00 PM MST
PREPARED BY / DATE

Brianne Maillot
07Mar2023
05:39:00 PM MST
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/5e4feb99-60db-4bc8-91f2-2d3cfc9adbb3

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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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