

PRODUCT NAME: Organic CBD Full Spectrum Tincture - Natural

2250mg **PRODUCT STRENGTH:** 221214B **TINCTURE BATCH:** 12/14/2024 **BEST BY DATE:** NF/Q/2232: **HEMP EXTRACT LOT:**

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and hemp, lime	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	*NLT (product strength) mg / bottle	2547mg	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 10^2=100 CFU 10^3=1,000 CFU

Quality Certified

1/18/2023

Date



2250mg FS Natural Tincture

Batch ID or Lot Number: 221214B	Test: Potency	Reported: 10Dec2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000230175	08Dec2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	08Dec2022	Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Cannabichromene (CBC)	0.006	0.022	0.362	3.62
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND
Cannabidiol (CBD)	0.019	0.060	8.939	89.39
Cannabidiolic Acid (CBDA)	0.019	0.062	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabidivarin (CBDV)	0.004	0.014	0.065	0.65
Cannabidivarinic Acid (CBDVA)	0.008	0.026	ND	ND
Cannabigerol (CBG)	0.004	0.013	0.199	1.99
Cannabigerolic Acid (CBGA)	0.015	0.053	ND	ND
Cannabinol (CBN)	0.005	0.017	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabinolic Acid (CBNA)	0.010	0.036	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.018	0.063	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.057	0.272	2.72
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.051	ND	ND
Tetrahydrocannabivarin (THCV)	0.003	0.012	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.045	ND	ND
Total Cannabinoids			9.837	98.37
Total Potential THC			0.272	2.72
Total Potential CBD			8.939	89.39

Final Approval



Karen Winternheimer 10Dec2022 01:35:00 PM MST

Samantha Smoth

Sam Smith 10Dec2022 01:37:00 PM MST



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/b49eda96-a82f-4995-a76c-aef3517b9fce

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-THC a *(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.













2250mg FS Natural Tincture

Batch ID: 221214B Test **ID:** T000126131

Type: Concentrate

Test: Pesticides

Method: TM17

PESTICIDE RESIDUE

Compound	Dynamic Range (p	opb) 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*

N/A

PREPARED BY

FINAL APPROVAL

Tyler Wiese

Ben Minton

APPROVED BY

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



2250mg FS Natural Tincture

Batch ID: 221214B

Type: Concentrate

Test: Residual Solvents

Method: TM04

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

Ben Minton

PREPARED BY / DATE

APPROVED BY / DATE

Den Muton

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2250mg FS Natural Tincture

Batch ID or Lot Number:	Test:	Reported: 21Oct2022	USDA License:
221214B	Mycotoxins		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

PREPARED BY / DATE

Sam Smith 21Oct2022 10:29:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 21Oct2022 10:31:00 AM MDT



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

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.











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2250mg FS Natural Tincture

Batch ID: 221	214B	Test ID:	T000126133
Type:	Concentrate		
Test:	Metals		
Method:	TM19		

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

Ben Minton

PREPARED BY APPROVED BY

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, LLC.

Den Muton





2250mg FS Natural Tincture

Batch ID or Lot Number: 221214B	Test: Microbial Contaminants	Reported: 22Dec2022	USDA License: N/A	
Matrix:	Test ID:	Started:	Sampler ID:	
Finished Product	T000231018	20Dec2022	N/A	
	Method(s):	Received:	Status:	
	TM25 (qPCR) TM24, TM26, TM27	16Dec2022	Active	
	(Culture Plating): Microbial (Colorac	do		
	Panel)			

Microbial			Quantitation		
Contaminants	Method	LOD	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

Eden Thompson-Wright 22Dec2022 10:12:00 AM MST Phil

Phillip Travisano 22Dec2022 11:15:00 AM MST



PREPARED BY / DATE

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ea035e3b-1771-43d7-b2a5-3ff26c2716ad

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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