

PRODUCT NAME:	Organic CBD Tincture - Natural
PRODUCT STRENGTH:	450mg
TINCTURE BATCH:	
BEST BY DATE:	
HEMP EXTRACT LOT:	

#### Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp	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		PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	ND	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	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 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		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

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Quality Certified

Date

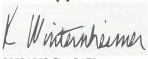


### 450mg Broad Spectrum Unflavored Tincture

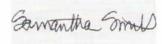
Batch ID or Lot Number: <b>230324A</b>	Test: <b>Potency</b>	Reported: <b>09Mar2023</b>	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000237775	08Mar2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	07Mar2023	Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.021	ND	ND	120000
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabidiol (CBD)	0.021	0.060	1.876	18.76	
Cannabidiolic Acid (CBDA)	0.021	0.062	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarinic Acid (CBDVA)	0.009	0.026	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.145	1.45	
Cannabigerolic Acid (CBGA)	0.017	0.051	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.021	0.060	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.055	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.017	0.049	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.015	0.043	ND	ND	
Total Cannabinoids			2.021	20.21	
Total Potential THC			ND	ND	
Total Potential CBD			1.876	18.76	

**Final Approval** 



Karen Winternheimer 09Mar2023 12:05:00 PM MST



Sam Smith 09Mar2023 12:07:00 PM MST



APPROVED BY / DATE PREPARED BY / DATE

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#### **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-

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was results are based solely upon the sample studmitted 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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### 450mg Broad Spectrum Unflavored Tincture

Batch ID or Lot Number: 230324A	Test: Residual Solvents	Reported: 09Mar2023	USDA License: N/A	
Matrix: Concentrate	Test ID: T000237779	Started: 08Mar2023	Sampler ID: N/A	
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 07Mar2023	Status: Active	

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	109 - 2177	ND	
Butanes (Isobutane, n-Butane)	225 - 4504	ND	
Methanol	67 - 1333	ND	
Pentane	111 - 2222	ND	
Ethanol	114 - 2275	ND	
Acetone	111 - 2215	ND	
Isopropyl Alcohol	114 - 2270	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	110 - 2195	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	109 - 2175	ND	
Toluene	20 - 396	ND	
Xylenes (m,p,o-Xylenes)	144 - 2881	ND	

**Final Approval** 

PREPARED BY / DATE

Karen Winternheimer 09Mar2023 12:38:00 PM MST

Sam Smith

09Mar2023 12:40:00 PM MST



APPROVED BY / DATE

Samantha "

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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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**USDA License:** 

### 450mg Broad Spectrum Unflavored Tincture

Batch ID or Lot Number: 230324A	Test: <b>Pesticides</b>	Reported: 10Mar2023	NA	
Matrix: Concentrate	Test ID: T000237776	Started: 09Mar2023	Sampler ID: NA	
	Method(s): TM17 (LC-QQ LC MS/MS)	Received: 07Mar2023	Status: NA	

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	287 - 2706	ND	Malathion	287 - 2728	ND
Acephate	42 - 2791	ND	Metalaxyl	42 - 2738	ND
Acetamiprid	42 - 2774	ND	Methiocarb	43 - 2757	ND
Azoxystrobin	43 - 2724	ND	Methomyl	43 - 2799	ND
Bifenazate	45 - 2727	ND	MGK 264 1	168 - 1649	ND
Boscalid	50 - 2758	ND	MGK 264 2	118 - 1130	ND
Carbaryl	41 - 2727	ND	Myclobutanil	36 - 2729	ND
Carbofuran	45 - 2722	ND	Naled	49 - 2737	ND
Chlorantraniliprole	43 - 2784	ND	Oxamyl	42 - 2801	ND
Chlorpyrifos	47 - 2894	ND	Paclobutrazol	45 - 2726	ND
Clofentezine	279 - 2736	ND	Permethrin	292 - 2741	ND
Diazinon	281 - 2750	ND	Phosmet	45 - 2684	ND
Dichlorvos	263 - 2763	ND	Prophos	286 - 2754	ND
Dimethoate	44 - 2762	ND	Propoxur	44 - 2733	ND
E-Fenpyroximate	288 - 2879	ND	Pyridaben	299 - 2820	ND
Etofenprox	47 - 2664	ND	Spinosad A	36 - 2225	ND
Etoxazole	288 - 2838	ND	Spinosad D	50 - 520	ND
Fenoxycarb	45 - 2716	ND	Spiromesifen	276 - 2878	ND
Fipronil	47 - 2714	ND	Spirotetramat	284 - 2742	ND
Flonicamid	48 - 2864	ND	Spiroxamine 1	19 - 1180	ND
Fludioxonil	310 - 2748	ND	Spiroxamine 2	23 - 1563	ND
Hexythiazox	40 - 2838	ND	Tebuconazole	278 - 2722	ND
lmazalil	273 - 2749	ND	Thiacloprid	45 - 2785	ND
lmidacloprid	44 - 2758	ND	Thiamethoxam	42 - 2797	ND
Kresoxim-methyl	43 - 2760	ND	Trifloxystrobin	46 - 2732	ND

**Final Approval** 



Karen Winternheimer 10Mar2023 10:32:00 AM MST

Sam Smith 10Mar2023 10:35:00 AM MST



APPROVED BY / DATE

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

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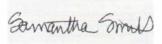
### 450mg Broad Spectrum Unflavored Tincture

Batch ID or Lot Number: 2230324A	Test: <b>Heavy Metals</b>	Reported: <b>09Mar2023</b>	USDA License: NA	
Matrix:	Test ID:	Started:	Sampler ID:	
Unit Co	T000237778	08Mar2023	NA	
	Method(s):	Received:	Status:	
	TM19 (ICP-MS): Heavy Metals	07Mar2023	NA	

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes	
Arsenic	0.04 - 4.21	ND		
Cadmium	0.04 - 4.38	ND		
Mercury	0.04 - 4.37	ND		
Lead	0.04 - 4.42	ND		

**Final Approval** 

PREPARED BY / DATE



Sam Smith 09Mar2023 09:56:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 09Mar2023 10:09:00 AM MST



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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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Cert #4329 02

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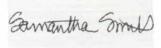


### **450mg Broad Spectrum Unflavored Tincture**

Batch ID or Lot Number: 230324A	Test: <b>Mycotoxins</b>	Reported: <b>09Mar2023</b>	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000237780	08Mar2023	N/A
William managers whose variation and summer managers are summer and summer summ	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	07Mar2023	Active

Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	2.35 - 137.94	ND	N/A	
Aflatoxin B1	0.99 - 34.27 ND			
Aflatoxin B2	0.96 - 33.94	ND		
Aflatoxin G1	0.96 - 34.63	ND		
Aflatoxin G2	2.22 - 34.47	ND		
Total Aflatoxins (B1, B2, G1, and G2)		ND		

**Final Approval** 



Sam Smith 09Mar2023 07:45:00 AM MST

APPROVED BY / DATE

Karen Winternheimer 09Mar2023 07:48:00 AM MST



PREPARED BY / DATE

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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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Cert #4329 02

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#### 450mg Broad Spectrum Unflavored Tincture

Batch ID or Lot Number: 230324A	Test: Microbial Contaminants	Reported: <b>02Apr2023</b>	USDA License: N/A			
Matrix:	Test ID:	Started:	Sampler ID:			
Finished Product	T000240106	29Mar2023	N/A			
	Method(s): Received:	Received:	Status:			
	TM25 (qPCR) TM24, TM26, TM27	29Mar2023	Active			
	(Culture Plating): Microbial (Colorado					
	Panel)					

Microbial		Quantitati	Quantitation			
Contaminants	Method	LOD	Range	Result	Notes	
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, an — foreign matter —	
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent		
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected		
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	_	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	_	

**Final Approval** 

Eden Thompson

Eden Thompson-Wright 01Apr2023 09:30:00 AM MDT

Buanne Maillot

Brianne Maillot 02Apr2023 02:52:00 PM MDT



PREPARED BY / DATE

APPROVED BY / DATE

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#### **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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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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