# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME:
PRODUCT STRENGTH:
TINCTURE BATCH:
BEST BY DATE:
HEMP EXTRACT LOT:

#### Organic CBD Full Spectrum Tincture - Key Lime

2250mg 230919B		
9/19/2023 LD-O-00108		
EB 0 00100		

#### Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp - Lime	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	2283mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	62mg	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Below LOQ	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Below LOQ	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
<b>Microbial</b> 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
<b>Residual Solvents</b>	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

Callo -Name

10/26/2023

Date



Batch ID or Lot Number:	Test:	Reported:	USDA License:
230919B	<b>Potency</b>	20Sep2023	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000256250	19Sep2023	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 18Sep2023	Status: Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Not
Cannabichromene (CBC)	0.005	0.017	0.293	2.93	
Cannabichromenic Acid (CBCA)	0.004	0.016	ND	ND	
Cannabidiol (CBD)	0.020	0.052	7.685	76.85	
Cannabidiolic Acid (CBDA)	0.021	0.053	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabidivarin (CBDV)	0.005	0.012	0.053	0.53	
Cannabidivarinic Acid (CBDVA)	0.009	0.022	ND	ND	
Cannabigerol (CBG)	0.003	0.010	ND	ND	
Cannabigerolic Acid (CBGA)	0.011	0.041	ND	ND	
Cannabinol (CBN)	0.003	0.013	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabinolic Acid (CBNA)	0.008	0.028	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.013	0.049	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.012	0.044	0.210	2.10	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.011	0.039	ND	ND	
Tetrahydrocannabivarin (THCV)	0.002	0.009	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.009	0.035	ND	ND	
Total Cannabinoids			8.241	82.41	
Total Potential THC			0.210	2.10	
Total Potential CBD			7.685	76.85	

# **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 20Sep2023 09:31:00 AM MDT

Amantha

Sam Smith 20Sep2023 09:33:00 AM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f537d549-ae1f-4be9-b5a5-757c75498f90

#### 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.



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Batch ID: 230919B Test ID:		T000126131	
Туре:	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)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	34 - 2468	ND*	Malathion	291 - 2468	ND*
Acetamiprid	40 - 2468	ND*	Metalaxyl	39 - 2468	ND*
Abamectin	>342	ND*	Methiocarb	38 - 2468	ND*
Azoxystrobin	42 - 2468	ND*	Methomyl	42 - 2468	ND*
Bifenazate	28 - 2468	ND*	MGK 264 1	160 - 2468	ND*
Boscalid	42 - 2468	ND*	MGK 264 2	101 - 2468	ND*
Carbaryl	38 - 2468	ND*	Myclobutanil	38 - 2468	ND*
Carbofuran	39 - 2468	ND*	Naled	41 - 2468	ND*
Chlorantraniliprole	37 - 2468	ND*	Oxamyl	38 - 2468	ND*
Chlorpyrifos	42 - 2468	ND*	Paclobutrazol	40 - 2468	ND*
Clofentezine	269 - 2468	ND*	Permethrin	269 - 2468	ND*
Diazinon	280 - 2468	ND*	Phosmet	41 - 2468	ND*
Dichlorvos	>286	ND*	Prophos	298 - 2468	ND*
Dimethoate	40 - 2468	ND*	Propoxur	38 - 2468	ND*
E-Fenpyroximate	279 - 2468	ND*	Pyridaben	281 - 2468	ND*
Etofenprox	41 - 2468	ND*	Spinosad A	30 - 2468	ND*
Etoxazole	289 - 2468	ND*	Spinosad D	76 - 2468	ND*
Fenoxycarb	>31	ND*	Spiromesifen	>273	ND*
Fipronil	38 - 2468	ND*	Spirotetramat	>299	ND*
Flonicamid	38 - 2468	ND*	Spiroxamine 1	17 - 2468	ND*
Fludioxonil	>286	ND*	Spiroxamine 2	22 - 2468	ND*
Hexythiazox	36 - 2468	ND*	Tebuconazole	285 - 2468	ND*
Imazalil	272 - 2468	ND*	Thiacloprid	42 - 2468	ND*
Imidacloprid	41 - 2468	ND*	Thiamethoxam	38 - 2468	ND*
Kresoxim-methyl	43 - 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

Den Muton

APPROVED BY / DATE

Ben Minton 1-Mar-2021 1:06 PM

PREPARED BY / DATE

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**Official Compliance: Colorado** 



### 2250mg Full Spectrum Key Lime Tincture

Test: <b>Mycotoxins</b>	Reported: <b>21Oct2022</b>	USDA License: N/A
Test ID:	Started:	Sampler ID:
T000223802	19Oct2022	N/A
Method(s):	Received:	Status:
TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	07Oct2022	Active
<b>Dynamic Range</b> (ppb)	<b>Result</b> (ppb)	Notes
1.29 - 118.48	ND	N/A
0.85 - 30.17	ND	
2.29 - 29.70	ND	
0.97 - 29.91	ND	
1.18 - 29.79	ND	
Total Aflatoxins (B1, B2, G1, and G2)		
	Test ID:   T000223802   Method(s):   TM18 (UHPLC-QQQ LCMS/MS):   Mycotoxins   Dynamic Range (ppb)   1.29 - 118.48   0.85 - 30.17   2.29 - 29.70   0.97 - 29.91   1.18 - 29.79	Mycotoxins   21Oct2022     Test ID: T000223802   Started: 19Oct2022     Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins   Received: 07Oct2022     Dynamic Range (ppb)   Result (ppb)     1.29 - 118.48   ND     0.85 - 30.17   ND     2.29 - 29.70   ND     0.97 - 29.91   ND     1.18 - 29.79   ND

# **Final Approval**

PREPARED BY / DATE

Samantha Sm

Sam Smith 21Oct2022 10:29:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 21Oct2022 10:31:00 AM MDT



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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Batch ID: 23	Batch ID: 230919B Test ID:		T000126134
Туре:	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

Den Muton

Ben Minton 2-Mar-2021 6:32 PM

APPROVED BY / DATE

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Batch ID:230919B Test ID:		T000126133	
Туре:	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**

Danuel Wantana

Daniel Weidensaul 3-Mar-2021 11:00 AM

Den Muton

APPROVED BY / DATE

Ben Minton 3-Mar-2021 12:36 PM

PREPARED BY / DATE

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Batch ID or Lot Number: 230919B	Test: <b>Microbial Cont</b> a	aminants	Reported: <b>25Sep2023</b>		USDA License: N/A
Matrix:	Test ID:	Test ID:			Sampler ID:
Finished Product	T000256846		21Sep2023		N/A
	Method(s):		Received:		Status:
	TM25 (qPCR) TM (Culture Plating) Panel)	l24, TM26, TM27 : Microbial (Colorado	21Sep2023 ס		Active
Microbial			<b>•</b> • • • • •		
Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and 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**

Kit 1/2 hrs

Brett Hudson 24Sep2023

Buanne Maillot

**Brianne Maillot** 25Sep2023 12:13:00 PM MDT



PREPARED BY / DATE

10:32:00 AM MDT

APPROVED BY / DATE https://results.botanacor.com/api/v1/coas/uuid/7ff1f8f9-6ac3-4103-8cf8-735f379bf91a

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:  $10^2 = 100 \text{ CFU}$ ,  $10^3 = 1,000 \text{ CFU}$ ,  $10^4 = 10,000 \text{ CFU}$ ,  $10^5 = 100,000 \text{ CFU}$ 

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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