# **CERTIFICATE OF ANALYSIS**

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

Organic C	BD Ti	ncture -	Lemon

1350<u>mg</u> 221229A 12/29/2024 O2PH200022001-PSB01

#### Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Golden to Amber	PASS
Odor	Internal	Characteristic - Coconut and Hemp, Lemon	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	45.9mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	ND	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	Absent	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	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

6

\* \*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 Name 1/13/2024

Date

FO-106 Certificate of Analysis Rev. 1.1 - Effective Date: 6/29/2022



## 1350mg Lemon Tincture

Batch ID or Lot Number:	Test:	Reported:	USDA License:
221229A	<b>Potency</b>	28Dec2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000231576	28Dec2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 27Dec2022	Status: Active

Cannabinoids	LOD (%)	LOQ (%)	Result (%)	<b>Result</b> (mg/g)
Cannabichromene (CBC)	0.006	0.021	ND	ND
Cannabichromenic Acid (CBCA)	0.005	0.019	ND	ND
Cannabidiol (CBD)	0.022	0.059	4.834	48.34
Cannabidiolic Acid (CBDA)	0.023	0.060	ND	ND
Cannabidivarin (CBDV)	0.005	0.014	0.025	0.25
Cannabidivarinic Acid (CBDVA)	0.009	0.025	ND	ND
Cannabigerol (CBG)	0.003	0.012	ND	ND
Cannabigerolic Acid (CBGA)	0.014	0.050	ND	ND
Cannabinol (CBN)	0.004	0.016	ND	ND
Cannabinolic Acid (CBNA)	0.010	0.034	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.017	0.060	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.015	0.054	ND	ND
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.048	ND	ND
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.043	ND	ND
Total Cannabinoids			4.859	48.59
Total Potential THC			ND	ND
Total Potential CBD			4.834	48.34

# **Final Approval**

PREPARED BY / DATE

Samantha Sma

Sam Smith 28Dec2022 01:40:00 PM MST

APPROVED BY / DATE

Karen Winternheimer 28Dec2022 01:49:00 PM MST



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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## 1350mg Lemon Tincture

Test: <b>Microbial Conta</b>	Test: Microbial Contaminants			USDA License: N/A	
Test ID:	Test ID:			Sampler ID:	
hed Product T000231750		04Jan2023		N/A	
Method(s):		Received:		Status:	
TM25 (qPCR) TM24, TM26, TM27		04Jan2023 ado		Active	
		Quantitation			
Method	LOD	Range	Result	Notes	
TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and	
TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	— foreign matter	
TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected		
TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected		
TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected		
	Microbial Conta Test ID: T000231750 Method(s): TM25 (qPCR) TM (Culture Plating): Panel) Method TM25: PCR TM25: PCR TM25: PCR TM24: Culture Plating TM26: Culture Plating TM27: Culture	Microbial Contaminants   Test ID:   T000231750   Method(s):   TM25 (qPCR) TM24, TM26, TM27   (Culture Plating): Microbial (Colorador Panel)   Method LOD   TM25: PCR 10 <sup>0</sup> CFU/25g   TM25: PCR 10 <sup>0</sup> CFU/25g   TM25: PCR 10 <sup>1</sup> CFU/25g   TM24: Culture Plating 10 <sup>1</sup> CFU/25g   TM26: Culture Plating 10 <sup>2</sup> CFU/25g   TM26: Culture Plating 10 <sup>2</sup> CFU/25g   TM27: Culture 10 <sup>1</sup> CFU/25g	Microbial Contaminants 09Jan2023   Test ID: T000231750 Started: 04Jan2023   Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel) Received: 04Jan2023   Method LOD Range   TM25: PCR 10 <sup>0</sup> CFU/25g NA   TM25: PCR 10 <sup>0</sup> CFU/25g NA   TM25: PCR 10 <sup>0</sup> CFU/25g NA   TM25: PCR 10 <sup>1</sup> CFU/25g NA   TM25: PCR 10 <sup>1</sup> CFU/25g NA   TM26: Culture Plating 10 <sup>1</sup> CFU/g $1.0x10^2 - 1.5x10^4$ TM27: Culture 10 <sup>1</sup> CFU/g $1.0x10^2 - 1.5x10^4$	Microbial ContaminantsO9Jan2023Test ID: T000231750Started: 04Jan2023Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Wicrobial (Colorado Panel)Received: 04Jan2023MethodLODReceived: NAMethodLODRangeResultTM25: PCR10° CFU/25gNAAbsentTM25: PCR10° CFU/25gNAAbsentTM25: PCR10° CFU/25gNAAbsentTM25: PCR10° CFU/25gNAAbsentTM24: Culture Plating10° CFU/g1.0x10²-1.5x10⁴None DetectedTM26: Culture Plating10° CFU/g1.0x10³-1.5x10⁴None Detected	

# **Final Approval**

Eden Thompson

Eden Thompson-Wright 09Jan2023 09:49:00 AM MST

Prot Verbur

Brett Hudson 09Jan2023 02:59:00 PM MST



PREPARED BY / DATE

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

APPROVED BY / DATE

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

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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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS



1350m9 Lemon Tincture 221229A | DATE ISSUED 06

# Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 06/20/2022 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Chlordane*	0.03/0.08	≥LOD	N/A	ND	PASS
Chlorfenapyr*	0.03/0.10	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.02/0.06	≥LOD	N/A	ND	PASS
Clofentezine	0.03/0.09	0.1	N/A	ND	PASS
Coumaphos	0.02/0.07	≥LOD	N/A	ND	PASS
Cyfluthrin	0.12/0.38	2	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Daminozide	0.02/0.07	≥ LOD	N/A	ND	PASS
Diazinon	0.02/0.05	0.1	N/A	ND	PASS
Dichlorvos (DDVP)	0.03/0.09	≥ LOD	N/A	ND	PASS
Dimethoate	0.03/0.08	≥ LOD	N/A	ND	PASS
Dimethomorph	0.03/0.09	2	N/A	ND	PASS
Ethoprophos	0.03/0.10	≥LOD	N/A	ND	PASS
Etofenprox	0.02/0.06	≥ LOD	N/A	ND	PASS
Etoxazole	0.02/0.06	0.1	N/A	ND	PASS
Fenhexamid	0.03/0.09	0.1	N/A	ND	PASS
Fenoxycarb	0.03/0.08	≥LOD	N/A	ND	PASS
Fenpyroximate	0.02/0.06	0.1	N/A	ND	PASS
Fipronil	0.03/0.08	≥ LOD	N/A	ND	PASS
Flonicamid	0.03/0.10	0.1	N/A	ND	PASS
Fludioxonil	0.03/0.10	0.1	N/A	ND	PASS
Hexythiazox	0.02/0.07	0.1	N/A	ND	PASS
Imazalil	0.02/0.06	≥LOD	N/A	ND	PASS
Imidacloprid	0.04/0.11	5	N/A	ND	PASS
Kresoxim-methyl	0.02/0.07	0.1	N/A	ND	PASS
Malathion	0.03/0.09	0.5	N/A	ND	PASS
Metalaxyl	0.02/0.07	2	N/A	ND	PASS
Methiocarb	0.02/0.07	≥LOD	N/A	ND	PASS
Methomyl	0.03/0.10	1	N/A	ND	PASS
Mevinphos	0.03/0.09	≥LOD	N/A	ND	PASS
Myclobutanil	0.03/0.09	0.1	N/A	ND	PASS
Naled	0.02/0.07	0.1	N/A	ND	PASS
Oxamyl	0.04/0.11	0.5	N/A	ND	PASS
Paclobutrazol	0.02/0.05	≥LOD	N/A	ND	PASS
Parathion-methyl	0.03/0.10	≥LOD	N/A	ND	PASS
Pentachloronitrobenzene*	0.03/0.09	0.1	N/A	ND	PASS
Permethrin	0.04/0.12	0.5	N/A	ND	PASS
Phosmet	0.03/0.10	0.1	N/A	ND	PASS
Piperonyl Butoxide	0.02/0.07	3	N/A	ND	PASS
Prallethrin	0.03/0.08	0.1	N/A	ND	PASS
Propiconazole	0.02/0.07	0.1	N/A	ND	PASS

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### Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS



1350mg Lemon Tincture 22122gA | DATE ISSUED 06/23/2022

## Pesticide Analysis Continued

#### PESTICIDE TEST RESULTS - 06/20/2022 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Propoxur	0.03/0.09	≥ LOD	N/A	ND	PASS
Pyrethrins	0.04/0.12	0.5	N/A	ND	PASS
Pyridaben	0.02/0.07	0.1	N/A	ND	PASS
Spinetoram	0.02/0.07	0.1	N/A	ND	PASS
Spinosad	0.02/0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02/0.05	0.1	N/A	ND	PASS
Spirotetramat	0.02/0.06	0.1	N/A	ND	PASS
Spiroxamine	0.03/0.08	≥ LOD	N/A	ND	PASS
Tebuconazole	0.02/0.07	0.1	N/A	ND	PASS
Thiadoprid	0.03/0.10	≥ LOD	N/A	ND	PASS
Thiamethoxam	0.03/0.10	5	N/A	ND	PASS
Trifloxystrobin	0.03/0.08	0.1	N/A	ND	PASS

# ្លំ🌾 Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS



Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

#### MYCOTOXIN TEST RESULTS - 06/20/2022 🔗 PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0/6.0		N/A	ND	1
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0/3.1		N/A	ND	
Aflatoxin G2	1.2/3.5		N/A	ND	
Total Aflatoxin	1 h	20		ND	PASS
Ochratoxin A	6.3/19.2	20	N/A	ND	PASS

#### RESIDUAL SOLVENTS TEST RESULTS - 06/21/2022 OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Propane	10/20	5000	N/A	ND	PASS
n-Butane	10/50	5000	N/A	ND	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
n-Hexane	2/5	290	N/A	ND	PASS
n-Heptane	20/60	5000	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50/160	2170	N/A	ND	PASS
Methanol	50/200	3000	N/A	ND	PASS
Ethanol	20/50	5000	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	10/40	5000	N/A	ND	PASS
Acetone	20/50	5000	N/A	ND	PASS
Ethyl Ether	20/50	5000	N/A	ND	PASS

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### Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS



1350mg Lemon Tincture 221229A| DATE ISSUED 06/23/2022

# Residual Solvents Analysis

#### RESIDUAL SOLVENTS TEST RESULTS - 06/21/2022 continued

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Ethylene Oxide	0.3/0.8	1	N/A	ND	PASS
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.3/0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Acetonitrile	2/7	410	N/A	ND	PASS

### Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

# Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by 3M<sup>™</sup> Petrifilm<sup>™</sup> and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M<sup>™</sup> Petrifilm<sup>™</sup>

#### HEAVY METALS TEST RESULTS - 06/19/2022 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02/0.1	0.2	N/A	ND	PASS
Cadmium	0.02/0.05	0.2	N/A	ND	PASS
Lead	0.04/0.1	0.5	N/A	ND	PASS
Mercury	0.002/0.01	0.1	N/A	ND	PASS

#### MICROBIOLOGY TEST RESULTS (PCR) - 06/22/2022 OPASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS
Staphylococcus aureus		ND	

#### MICROBIOLOGY TEST RESULTS (PLATING) - 06/22/2022 ND

COMPOUND	RESULT (cfu/g)
Total Yeast and Mold	ND
Total Enterobacteriaceae	ND

#### NOTES

COA amended, update to order detail information.