

# HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS



## Hemp Analysis - Summary

Tested by high-performance liquid chromatography with ultraviolet detection (HPLC-UV).

### TOTAL THC<sup>1</sup>

# 0.2489%<sup>2</sup>

### CANNABINOID PROFILE

8.760% Total CBD<sup>1</sup>

9.4808% Total Cannabinoids<sup>3</sup>

Terpenes Not Tested



- 1) Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step: Total THC =  $\Delta^9\text{THC} + (\text{THCa} \times 0.877)$  and Total CBD =  $\text{CBD} + (\text{CBDa} \times 0.877)$ .
- 2) As defined by the 2018 Farm Bill, hemp must contain no more than 0.3% Total THC, defined as the concentration of delta-9 tetrahydrocannabinol ( $\Delta^9\text{-THC}$ ) post-decarboxylation - see formula above.
- 3) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

## Additional Testing

Pass/Fail defined at action limits set by California Code of Regulations Title 16. Effective date: January 16, 2019. Authority: Section 26013, Business Professions Code. Reference: Sections 26100, 26104, and 26110, Business Professions Code.

## 2500 mg full spectrum tincture

Tested for:

Address:

Batch #:



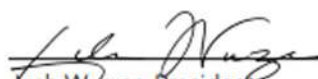
2003002

Sample ID: 200131L004

Date Collected: 01/31/2020

Date Received: 01/31/2020

## Final Approval

  
Josh Wurzer, President  
Date: 02/01/2020

These results relate only to the sample included on this report. This report shall not be reproduced except in full, without written approval of the laboratory. The uncertainty of measurement associated with the measurement result reported in this certificate is available from SC Laboratories upon request.



# HEMP LABORATORY TEST CERTIFICATE OF ANALYSIS

Sample Name: 2500 mg full spectrum tincture

LIMS Sample ID: 200131L004

Batch #: 2003002

Source METRC UID:

Sample Type: Other

Batch Weight:

Sample Weight: 10 Gram(s)

Unit Volume: 30 Milliliters per Unit

Serving Mass:

Density: 0.9374 g/mL

Date Collected: 01/31/2020

Date Received: 01/31/2020

Tested for:

License #:

Address:

Produced by:

License #:

Address:



## Moisture Test Results

Moisture	Results (%)
	NT

## Cannabinoid Test Results

02/01/2020

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

	mg/mL	%	LOD / LOQ mg/mL
Δ9THC	2.333	0.2489	0.0009 / 0.003
Δ8THC	ND	ND	0.0009 / 0.003
THCa	ND	ND	0.0009 / 0.003
THCV	ND	ND	0.0004 / 0.001
THCVa	ND	ND	0.0013 / 0.004
CBD	78.742	8.4000	0.0009 / 0.003
CBDa	3.847	0.4104	0.0009 / 0.003
CBDV	0.348	0.0371	0.0004 / 0.001
CBDVa	0.022	0.0023	0.0003 / 0.001
CBG	0.625	0.0667	0.001 / 0.003
CBGa	0.011	0.0012	0.0008 / 0.002
CBL	0.120	0.0128	0.0021 / 0.006
CBN	0.197	0.0210	0.0009 / 0.003
CBC	2.571	0.2743	0.0011 / 0.003
CBCa	0.057	0.0061	0.0015 / 0.005

<b>Sum of Cannabinoids:</b>	<b>88.873</b>	<b>9.4808</b>	<b>2666.190 mg/Unit</b>
Total THC (Δ9THC+0.877*THCa)	2.333	0.2489	69.990 mg/Unit
Total CBD (CBD+0.877*CBDa)	82.116	8.760	2463.480 mg/Unit

Δ9THC per Unit  
Δ9THC per Serving

Action Limit mg

69.990 mg/Unit

## Batch Photo



## Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g	%	LOD / LOQ mg/g
α Bisabolol	NT		
α Pinene	NT		
β Carene	NT		
Borneol	NT		
β Caryophyllene	NT		
Geraniol	NT		
α Humulene	NT		
Terpinolene	NT		
Valencene	NT		
Menthol	NT		
Nerolidol	NT		
Camphene	NT		
Eucalyptol	NT		
α Cedrene	NT		
Camphor	NT		
(-)-Isopulegol	NT		
Sabinene	NT		
γ Terpinene	NT		
α Terpinene	NT		
Linalool	NT		
Limonene	NT		
Myrcene	NT		
Fenchol	NT		
α Phellandrene	NT		
Caryophyllene Oxide	NT		
Terpineol	NT		
β Pinene	NT		
R-(+)-Pulegone	NT		
Geranyl Acetate	NT		
Citronellol	NT		
p-Cymene	NT		
Odorless	NT		
Guaiol	NT		
Phytol	NT		
Isoborneol	NT		
<b>Total Terpene Concentration:</b>	<b>NT</b>		

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
Authority: Section 26013, Business and Professions Code.  
104 and 26110, Business and Professions Code.

Josh Wurzer, President  
Date: 02/01/2020