

SAMPLE NAME: Painted Lady 1500mg

Infused, Hemp

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:
DISTRIBUTOR / TESTED FOR
Business Name: Acknowledge Farms, LLC

License Number:
Address:
SAMPLE DETAIL
Batch Number: 1010150066

Sample ID: 221220L073

Date Collected: 12/20/2022

Date Received: 12/20/2022

Batch Size:
Sample Size: 1.0 units

Unit Mass: 30 milliliters per Unit

Serving Size: 1 milliliters per Serving

CANNABINOID ANALYSIS - SUMMARY
Total THC: 41.640 mg/unit

Total CBD: 1464.480 mg/unit

Sum of Cannabinoids: 1628.130 mg/unit

Total Cannabinoids: 1627.860 mg/unit

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

$$\text{Total THC} = \Delta^9\text{-THC} + (\text{THCa} \cdot 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \cdot 0.877)$$

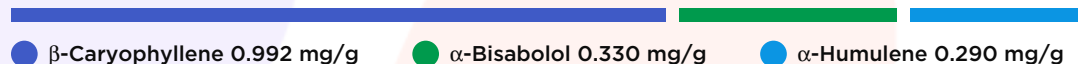
$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$


$$\text{Total Cannabinoids} = (\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$
Density: 0.9202 g/mL

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.2265%


 **β-Caryophyllene** 0.992 mg/g

 **α-Bisabolol** 0.330 mg/g

 **α-Humulene** 0.290 mg/g

SAFETY ANALYSIS - SUMMARY
Microbiology (PCR): ND


Microbiology (Plating): ND

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. 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.

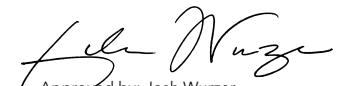
Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)



LQC verified by: Quinn Rizal
Job Title: Laboratory Assistant
Date: 12/24/2022



Approved by: Josh Wurzer
Job Title: President
Date: 12/24/2022



Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 41.640 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 1464.480 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 1627.860 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8 -THC + CBL + CBN

TOTAL CBG: 25.290 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 78.150 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 15.390 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 12/24/2022

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±1.8186	48.755	5.2983
CBC	0.003 / 0.010	±0.0839	2.605	0.2831
Δ^9 -THC	0.002 / 0.014	±0.0762	1.388	0.1508
CBG	0.002 / 0.006	±0.0409	0.843	0.0916
CBDV	0.002 / 0.012	±0.0209	0.513	0.0557
CBDA	0.001 / 0.026	±0.0020	0.070	0.0076
CBL	0.003 / 0.010	±0.0023	0.061	0.0066
CBN	0.001 / 0.007	±0.0010	0.036	0.0039
Δ^8 -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			54.271 mg/mL	5.8977%

Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliters per Serving

Δ^9 -THC per Unit	41.640 mg/unit
Δ^9 -THC per Serving	1.388 mg/serving
Total THC per Unit	41.640 mg/unit
Total THC per Serving	1.388 mg/serving
CBD per Unit	1462.650 mg/unit
CBD per Serving	48.755 mg/serving
Total CBD per Unit	1464.480 mg/unit
Total CBD per Serving	48.816 mg/serving
Sum of Cannabinoids per Unit	1628.130 mg/unit
Sum of Cannabinoids per Serving	54.271 mg/serving
Total Cannabinoids per Unit	1627.860 mg/unit
Total Cannabinoids per Serving	54.262 mg/serving

DENSITY TEST RESULT

0.9202 g/mL

Tested 12/24/2022

Method: QSP 7870 - Sample Preparation



Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID

1 β -Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

2 α -Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

3 α -Humulene

Also known as α -caryophyllene, it is an isomer of the sesquiterpene β -Caryophyllene which frequently occurs in nature with many aromatic plants across the globe. It has a fragrance that can be described as earthy or musky with spicy undertones. Found in hops, forskohlii, skullcaps, basil, nutmeg, cloves, sage, cotton, tamarind, black pepper, guava, Scotch pine...etc.

TERPENOID TEST RESULTS - 12/24/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β -Caryophyllene	0.004 / 0.012	± 0.0275	0.992	0.0992
α -Bisabolol	0.008 / 0.026	± 0.0137	0.330	0.0330
α -Humulene	0.009 / 0.029	± 0.0073	0.290	0.0290
Guaiol	0.009 / 0.030	± 0.0105	0.285	0.0285
Myrcene	0.008 / 0.025	± 0.0015	0.152	0.0152
Caryophyllene Oxide	0.010 / 0.033	± 0.0041	0.115	0.0115
trans- β -Farnesene	0.008 / 0.025	± 0.0011	0.040	0.0040
Fenchol	0.010 / 0.034	± 0.0011	0.038	0.0038
Limonene	0.005 / 0.016	± 0.0003	0.023	0.0023
Borneol	0.005 / 0.016	N/A	<LOQ	<LOQ
Terpineol	0.009 / 0.031	N/A	<LOQ	<LOQ
Citronellol	0.003 / 0.010	N/A	<LOQ	<LOQ
Valencene	0.009 / 0.030	N/A	<LOQ	<LOQ
Nerolidol	0.006 / 0.019	N/A	<LOQ	<LOQ
α -Pinene	0.005 / 0.017	N/A	ND	ND
Camphene	0.005 / 0.015	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
β -Pinene	0.004 / 0.014	N/A	ND	ND
α -Phellandrene	0.006 / 0.020	N/A	ND	ND
Δ^3 -Carene	0.005 / 0.018	N/A	ND	ND
α -Terpinene	0.005 / 0.017	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
β -Ocimene	0.006 / 0.020	N/A	ND	ND
γ -Terpinene	0.006 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009 / 0.028	N/A	ND	ND
Terpinolene	0.008 / 0.026	N/A	ND	ND
Linalool	0.009 / 0.032	N/A	ND	ND
Isopulegol	0.005 / 0.016	N/A	ND	ND
Camphor	0.006 / 0.019	N/A	ND	ND
Isoborneol	0.004 / 0.012	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Nerol	0.003 / 0.011	N/A	ND	ND
Pulegone	0.003 / 0.011	N/A	ND	ND
Geraniol	0.002 / 0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
α -Cedrene	0.005 / 0.016	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			2.265 mg/g	0.2265%



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™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PCR) - 12/24/2022 ND

COMPOUND	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	ND
<i>Salmonella</i> spp.	ND

MICROBIOLOGY TEST RESULTS (PLATING) - 12/24/2022 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND
Coliforms	ND