

SAMPLE NAME: Forbidden V 600mg

Infused, Hemp

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

License Number:
Address:

SAMPLE DETAIL
Batch Number: 101060063

Sample ID: 221220L070

Date Collected: 12/20/2022

Date Received: 12/20/2022

Batch Size:
Sample Size: 1.0 units

Unit Mass: 4 milliliters per Unit

Serving Size: 1 milliliters per Serving


Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY
Total THC: 2.736 mg/unit
Total CBD: 77.256 mg/unit
Sum of Cannabinoids: 129.256 mg/unit
Total Cannabinoids: 129.228 mg/unit

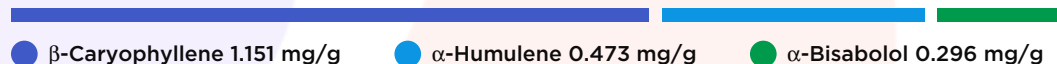


Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

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

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

$$\begin{aligned} \text{Sum of Cannabinoids} = & \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \\ & \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN} \\ \text{Total Cannabinoids} = & (\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + \\ & (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + \\ & (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN} \end{aligned}$$
Density: 0.9 g/mL
TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED


Total Terpenoids: 0.242%

 **β-Caryophyllene 1.151 mg/g**
 **α-Humulene 0.473 mg/g**
 **α-Bisabolol 0.296 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)



Approved by: Josh Wurzer
Job Title: President
Date: 01/16/2023



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: 2.736 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 77.256 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 129.228 mg/unit

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

TOTAL CBG: 1.532 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: 1.880 mg/unit

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 3.076 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 42.748 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 01/16/2023

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±0.7186	19.266	2.1407
CBDV	0.002 / 0.012	±0.4360	10.687	1.1874
CBC	0.003 / 0.010	±0.0248	0.769	0.0854
Δ^9 -THC	0.002 / 0.014	±0.0376	0.684	0.0760
THCV	0.002 / 0.012	±0.0231	0.470	0.0522
CBG	0.002 / 0.006	±0.0186	0.383	0.0426
CBDa	0.001 / 0.026	±0.0016	0.055	0.0061
CBDVa	0.001 / 0.018	N/A	<LOQ	<LOQ
Δ^8 -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBN	0.001 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			32.314 mg/mL	3.5904%

Unit Mass: 4 milliliters per Unit / Serving Size: 1 milliliters per Serving

Δ^9 -THC per Unit	2.736 mg/unit
Δ^9 -THC per Serving	0.684 mg/serving
Total THC per Unit	2.736 mg/unit
Total THC per Serving	0.684 mg/serving
CBD per Unit	77.064 mg/unit
CBD per Serving	19.266 mg/serving
Total CBD per Unit	77.256 mg/unit
Total CBD per Serving	19.314 mg/serving
Sum of Cannabinoids per Unit	129.256 mg/unit
Sum of Cannabinoids per Serving	32.314 mg/serving
Total Cannabinoids per Unit	129.228 mg/unit
Total Cannabinoids per Serving	32.307 mg/serving

DENSITY TEST RESULT

0.9 g/mL

Tested 01/16/2023

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 -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.

3 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.

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	± 0.0319	1.151	0.1151
α -Humulene	0.009 / 0.029	± 0.0118	0.473	0.0473
α -Bisabolol	0.008 / 0.026	± 0.0123	0.296	0.0296
Guaiol	0.009 / 0.030	± 0.0059	0.160	0.0160
trans- β -Farnesene	0.008 / 0.025	± 0.0041	0.147	0.0147
Caryophyllene Oxide	0.010 / 0.033	± 0.0026	0.073	0.0073
Nerolidol	0.006 / 0.019	± 0.0026	0.053	0.0053
Terpineol	0.009 / 0.031	± 0.0017	0.036	0.0036
Valencene	0.009 / 0.030	± 0.0017	0.031	0.0031
Myrcene	0.008 / 0.025	N/A	<LOQ	<LOQ
Linalool	0.009 / 0.032	N/A	<LOQ	<LOQ
Fenchol	0.010 / 0.034	N/A	<LOQ	<LOQ
Borneol	0.005 / 0.016	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
Limonene	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
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
Citronellol	0.003 / 0.010	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			2.420 mg/g	0.242%



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

NOTES

CoA Amended Update: Reporting Unit