

SAMPLE NAME: Hawaiian Haze (INDOOR)

Flower, Hemp

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: Black Tie Group

License Number:

Address:

SAMPLE DETAIL

Batch Number:

Sample ID: 220701V005

Date Collected: 07/01/2022

Date Received: 07/01/2022

Batch Size:

Sample Size: 8.0 grams

Unit Mass:

Serving Size: 1 grams per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.50279%

Total CBD: 13.41%

Sum of Cannabinoids: 16.48%

Total Cannabinoids: 14.82%

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

Total THC = Δ^9 -THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8 -THC + CBL + CBN

Total Cannabinoids = (Δ^9 -THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ^8 -THC + CBL + CBN

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.5321%



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 16 Effect Date January 16, 2019. Authority: Section 26013, 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)

Anastasia Reiniak
 LQC verified by: Anastasia Reiniak
 Date: 07/03/2022

Josh Wurzer
 Approved by: Josh Wurzer, President
 Date: 07/03/2022



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: 0.50279%

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 13.41%

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 14.82%

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

TOTAL CBG: 0.35%

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.49%

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.068%

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 07/03/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBDA	0.06 / 0.22	±4.117	125.13	12.513
CBD	0.1 / 0.3	±1.04	24.4	2.44
CBCa	0.1 / 0.4	±0.25	3.7	0.37
Δ^9 -THC	0.0013 / 0.0050	±0.09077	2.9760	0.29760
CBGa	0.1 / 0.4	±0.15	2.7	0.27
THCa	0.0005 / 0.0030	±0.07510	2.3397	0.23397
CBC	0.1 / 0.2	±0.06	1.7	0.17
CBG	0.2 / 0.5	±0.07	1.1	0.11
CBDVa	0.02 / 0.22	±0.007	0.77	0.077
Δ^8 -THC	0.05 / 0.50	N/A	ND	ND
THCV	0.07 / 0.21	N/A	ND	ND
THCVa	0.05 / 0.17	N/A	ND	ND
CBDV	0.1 / 0.3	N/A	ND	ND
CBL	0.1 / 0.4	N/A	ND	ND
CBN	0.07 / 0.20	N/A	ND	ND
SUM OF CANNABINOIDS			164.8 mg/g	16.48%

Serving Size: 1 grams per Serving

Δ^9 -THC per Serving	2.9760 mg/serving
Total THC per Serving	5.0279 mg/serving
CBD per Serving	24.4 mg/serving
Total CBD per Serving	134.1 mg/serving
Sum of Cannabinoids per Serving	164.8 mg/serving
Total Cannabinoids per Serving	148.2 mg/serving

Terpenoid Analysis

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

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

TERPENOID TEST RESULTS - 07/03/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Myrcene	0.007 / 0.025	±0.0800	2.261	0.2261
α -Pinene	0.005 / 0.015	±0.0180	0.504	0.0504
β -Caryophyllene	0.004 / 0.013	±0.0230	0.428	0.0428
Guaiol	0.011 / 0.035	±0.0226	0.415	0.0415
Linalool	0.009 / 0.030	±0.0145	0.370	0.0370
α -Bisabolol	0.008 / 0.026	±0.0124	0.289	0.0289
Limonene	0.005 / 0.016	±0.0072	0.221	0.0221
β -Pinene	0.004 / 0.015	±0.0052	0.161	0.0161
Terpineol	0.008 / 0.025	±0.0091	0.148	0.0148
α -Humulene	0.009 / 0.031	±0.0077	0.143	0.0143
Fenchol	0.009 / 0.029	±0.0045	0.121	0.0121

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Terpenoid Analysis *Continued*

TERPENOID TEST RESULTS - 07/03/2022 *continued*

1

Myrcene

A monoterpene with a fragrance that can be described as peppery, spicy, herbal, floral and woody. Although it has a pleasant odor, it is typically used by the perfume industry as precursor for developing other fragrances. Found in hops, houttuynia, bay, thyme, lemon grass, mango, verbena, cardamom, citrus...etc.

2

α-Pinene

One of two isomers of the monoterpene Pinene, the most abundant terpene in the natural world. It is responsible for the distinct aroma of many coniferous trees, particularly pines, from which it derives its name. It is a primary constituent of turpentine. Found in pines, rose gun, parsley, frankincense, guava, juniper, rosemary, nutmeg, blue gum, valerian...etc.

3

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.

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
trans-β-Farnesene	0.008 / 0.028	±0.0048	0.085	0.0085
Caryophyllene Oxide	0.011 / 0.038	±0.0034	0.058	0.0058
Nerolidol	0.006 / 0.020	±0.0044	0.055	0.0055
Borneol	0.004 / 0.014	±0.0020	0.042	0.0042
β-Ocimene	0.005 / 0.018	±0.0008	0.020	0.0020
Camphene	0.004 / 0.014	N/A	<LOQ	<LOQ
Sabinene	0.004 / 0.014	N/A	<LOQ	<LOQ
γ-Terpinene	0.005 / 0.018	N/A	<LOQ	<LOQ
Fenchone	0.008 / 0.026	N/A	<LOQ	<LOQ
α-Cedrene	0.005 / 0.017	N/A	<LOQ	<LOQ
Valencene	0.010 / 0.033	N/A	<LOQ	<LOQ
α-Phellandrene	0.006 / 0.019	N/A	ND	ND
Δ ³ -Carene	0.005 / 0.018	N/A	ND	ND
α-Terpinene	0.006 / 0.019	N/A	ND	ND
p-Cymene	0.005 / 0.015	N/A	ND	ND
Eucalyptol	0.005 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.007 / 0.022	N/A	ND	ND
Terpinolene	0.008 / 0.027	N/A	ND	ND
Isopulegol	0.004 / 0.013	N/A	ND	ND
Camphor	0.005 / 0.015	N/A	ND	ND
Isoborneol	0.003 / 0.011	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 / 0.010	N/A	ND	ND
Geraniol	0.002 / 0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.012	N/A	ND	ND
Cedrol	0.009 / 0.032	N/A	ND	ND
TOTAL TERPENOIDS			5.321 mg/g	0.5321%