Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 11/25/2021

SAMPLE NAME: Terpene - Hawaiian Haze

Concentrate, Hemp

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: Earthy Now
License Number:
Address:

SAMPLE DETAIL

Batch Number:
Sample ID: 211122U021

Date Collected: 11/22/2021
Date Received: 11/22/2021
Batch Size:
Sample Size: 3.0 units
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 65.9962%

- Myrcene 417.778 mg/g
- α Pinene 72.387 mg/g
- Limonene 42.847 mg/g

For quality assurance purposes. Not a Pre-Harvest 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)

LQC verified by: Callie Stone
Date: 11/25/2021

Approved by: Josh Wurzer, President
Date: 11/25/2021

Terpenoid Analysis

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

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

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 Limonene
A monoterpene with a fragrance that can be described as orangey, citrusy, sweet and tart. It is most commonly found in nature as D-Limonene and is a primary contributor to the distinct scent of orange peels, from which it is commonly derived. Found in numerous pines, red maple, silver maple, aspens, cottonwoods, hemlocks, sumac, cedar, junipers...etc.

TERPENOID TEST RESULTS - 11/25/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Myrcene	*0.008 / 0.025*	*±5.3893*	417.778	41.7778
α Pinene	*0.005 / 0.017*	*±0.6225*	72.387	7.2387
Limonene	*0.005 / 0.016*	*±0.6127*	42.847	4.2847
β Pinene	*0.004 / 0.014*	*±0.3970*	34.518	3.4518
β Caryophyllene	*0.004 / 0.012*	*±1.1698*	32.859	3.2859
Ocimene	*0.011 / 0.038*	*±0.4820*	15.015	1.5015
α Humulene	*0.009 / 0.029*	*±0.3313*	10.320	1.0320
Terpineol	*0.016 / 0.055*	*±0.4099*	6.676	0.6676
Linalool	*0.009 / 0.032*	*±0.2019*	5.313	0.5313
trans-β-Farnesene	*0.008 / 0.025*	*±0.1630*	4.592	0.4592
Terpinolene	*0.008 / 0.026*	*±0.0884*	4.313	0.4313
Fenchol	*0.010 / 0.034*	*±0.0928*	2.397	0.2397
Camphene	*0.005 / 0.015*	*±0.0208*	1.809	0.1809
Caryophyllene Oxide	*0.010 / 0.033*	*±0.0624*	1.356	0.1356
Guaiol	*0.009 / 0.030*	*±0.0519*	1.100	0.1100
Valencene	*0.009 / 0.030*	*±0.0708*	1.027	0.1027
Nerolidol	*0.009 / 0.028*	*±0.0442*	0.702	0.0702
Sabinene	*0.004 / 0.014*	*±0.0084*	0.698	0.0698
Eucalyptol	*0.006 / 0.018*	*±0.0166*	0.656	0.0656
α Bisabolol	*0.008 / 0.026*	*±0.0337*	0.631	0.0631
Borneol	*0.005 / 0.016*	*±0.0258*	0.614	0.0614
Fenchone	*0.009 / 0.028*	*±0.0154*	0.528	0.0528
γ Terpinene	*0.006 / 0.018*	*±0.0084*	0.488	0.0488
α Phellandrene	*0.006 / 0.020*	*±0.0040*	0.297	0.0297
α Terpinene	*0.005 / 0.017*	*±0.0039*	0.260	0.0260
Citronellol	*0.003 / 0.010*	*±0.0110*	0.226	0.0226
p-Cymene	*0.005 / 0.016*	*±0.0051*	0.189	0.0189
3 Carene	*0.005 / 0.018*	*±0.0026*	0.184	0.0184
Sabinene Hydrate	*0.006 / 0.022*	*±0.0055*	0.143	0.0143
Nerol	*0.003 / 0.011*	*±0.0017*	0.039	0.0039
(-)-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
R-(+)-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			659.962 mg/g	65.9962%