

SAMPLE NAME: Grape Soda

Flower, Hemp

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:
DISTRIBUTOR / TESTED FOR
Business Name: Stoney Branch Ag

Ventures LLC

License Number:
Address:

SAMPLE DETAIL
Batch Number: 00207

Sample ID: 230803S009

Date Collected: 08/03/2023

Date Received: 08/03/2023

Batch Size:
Sample Size:
Unit Mass:
Serving Size:


Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY
Total THC: 0.64%
Total CBD: 13.74%
Sum of Cannabinoids: 18.31%
Total Cannabinoids: 16.22%

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

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

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

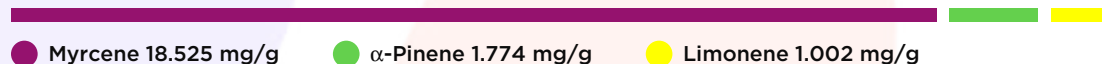
$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$

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

$$(\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) +$$

$$(\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$
TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 2.5514%


Myrcene 18.525 mg/g

α-Pinene 1.774 mg/g

Limonene 1.002 mg/g

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)



LQC verified by: Carmen Stackhouse
Job Title: Senior Laboratory Analyst
Date: 08/05/2023

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 08/05/2023



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: 0.64%

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 13.74%

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 16.22%

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

TOTAL CBG: 0.89%

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.89%

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.061%

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/05/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBDa	0.06 / 0.22	±4.788	145.53	14.553
CBD	0.1 / 0.3	±0.42	9.8	0.98
CBGa	0.1 / 0.4	±0.49	9.1	0.91
CBCa	0.1 / 0.4	±0.60	8.8	0.88
THCa	0.04 / 0.24	±0.179	5.59	0.559
Δ^9 -THC	0.1 / 0.4	±0.05	1.5	0.15
CBC	0.1 / 0.2	±0.04	1.2	0.12
CBG	0.2 / 0.5	±0.06	0.9	0.09
CBDVa	0.02 / 0.22	±0.006	0.70	0.070
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			183.1 mg/g	18.31%

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.

TERPENOID TEST RESULTS - 08/05/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Myrcene	0.007 / 0.025	±0.6558	18.525	1.8525
α -Pinene	0.005 / 0.015	±0.0635	1.774	0.1774
Limonene	0.005 / 0.016	±0.0327	1.002	0.1002
β -Pinene	0.004 / 0.015	±0.0242	0.749	0.0749
Terpineol	0.008 / 0.025	±0.0450	0.736	0.0736
β -Caryophyllene	0.004 / 0.013	±0.0366	0.680	0.0680
β -Ocimene	0.005 / 0.018	±0.0210	0.535	0.0535
α -Bisabolol	0.008 / 0.026	±0.0189	0.440	0.0440
Linalool	0.009 / 0.030	±0.0125	0.317	0.0317
α -Humulene	0.009 / 0.031	±0.0130	0.241	0.0241
trans- β -Farnesene	0.008 / 0.028	±0.0123	0.216	0.0216
Fenchol	0.009 / 0.029	±0.0032	0.087	0.0087
Nerolidol	0.006 / 0.020	±0.0047	0.060	0.0060

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Terpenoid Analysis *Continued*

TERPENOID TEST RESULTS - 08/05/2023 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Borneol	0.004 / 0.014	±0.0025	0.054	0.0054
Camphene	0.004 / 0.014	±0.0017	0.051	0.0051
Terpinolene	0.008 / 0.027	±0.0004	0.028	0.0028
γ-Terpinene	0.005 / 0.018	±0.0005	0.019	0.0019
α-Phellandrene	0.006 / 0.019	N/A	<LOQ	<LOQ
α-Terpinene	0.006 / 0.019	N/A	<LOQ	<LOQ
p-Cymene	0.005 / 0.015	N/A	<LOQ	<LOQ
Eucalyptol	0.005 / 0.018	N/A	<LOQ	<LOQ
Sabinene Hydrate	0.007 / 0.022	N/A	<LOQ	<LOQ
Fenchone	0.008 / 0.026	N/A	<LOQ	<LOQ
Valencene	0.010 / 0.033	N/A	<LOQ	<LOQ
Caryophyllene Oxide	0.011 / 0.038	N/A	<LOQ	<LOQ
Guaiol	0.011 / 0.035	N/A	<LOQ	<LOQ
Sabinene	0.004 / 0.014	N/A	ND	ND
Δ ³ -Carene	0.005 / 0.018	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
α-Cedrene	0.005 / 0.017	N/A	ND	ND
Cedrol	0.009 / 0.032	N/A	ND	ND
TOTAL TERPENOIDS			25.514 mg/g	2.5514%

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 gum, 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.