

**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:** 210

**Sample ID:** 240511Q005

**Date Collected:** 05/11/2024

**Date Received:** 05/11/2024

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


Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**
**Total THC:** 0.79%

**Total CBD:** 17.66%

**Sum of Cannabinoids:** 23.8%

**Total Cannabinoids:** 21.0%

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

 $Total\ THC = \Delta^9\text{-THC} + (THCa\ (0.877))$ 
 $Total\ CBD = CBD + (CBDa\ (0.877))$ 
 $Sum\ of\ Cannabinoids = \Delta^9\text{-THC} + THCa + CBD + CBDa + CBG + CBGa +$ 
 $THCV + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta^8\text{-THC} + CBL + CBN$ 
 $Total\ Cannabinoids = (\Delta^9\text{-THC} + 0.877*THCa) + (CBD + 0.877*CBDa) +$ 
 $(CBG + 0.877*CBGa) + (THCV + 0.877*THCVa) + (CBC + 0.877*CBCa) +$ 
 $(CBDV + 0.877*CBDVa) + \Delta^8\text{-THC} + CBL + CBN$ 
**TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids:** 2.9854%

**Myrcene 21.114 mg/g**

**α-Pinene 2.038 mg/g**

**Limonene 1.236 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.

*Yasmin*  
 LQC verified by: Yasmin Kakkar  
 Job Title: Senior Laboratory Analyst  
 Date: 05/14/2024

*Josh Wurzer*  
 Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 05/14/2024

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

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## 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: 0.79%

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

### TOTAL CBD: 17.66%

Total CBD (CBD+0.877\*CBDA)

### TOTAL CANNABINOIDS: 21.0%

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

### TOTAL CBG: 1.31%

Total CBG (CBG+0.877\*CBGa)

### TOTAL THCV: ND

Total THCV (THCV+0.877\*THCVa)

### TOTAL CBC: 1.17%

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: 0.073%

Total CBDV (CBDV+0.877\* CBDVa)

## CANNABINOID TEST RESULTS - 05/14/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBDa	0.06 / 0.22	±6.337	192.62	19.262
CBGa	0.1 / 0.4	±0.75	13.9	1.39
CBCa	0.1 / 0.4	±0.82	12.0	1.20
CBD	0.1 / 0.3	±0.33	7.7	0.77
THCa	0.04 / 0.24	±0.247	7.69	0.769
$\Delta^9$ -THC	0.1 / 0.4	±0.04	1.2	0.12
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	±0.007	0.83	0.083
$\Delta^8$ -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
<b>SUM OF CANNABINOIDS</b>			<b>238.0 mg/g</b>	<b>23.8%</b>

## 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 - 05/14/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Myrcene	0.007 / 0.025	±0.7474	21.114	2.1114
$\alpha$ -Pinene	0.005 / 0.015	±0.0730	2.038	0.2038
Limonene	0.005 / 0.016	±0.0403	1.236	0.1236
$\beta$ -Ocimene	0.005 / 0.018	±0.0359	0.913	0.0913
$\beta$ -Pinene	0.004 / 0.015	±0.0292	0.904	0.0904
$\beta$ -Caryophyllene	0.004 / 0.013	±0.0410	0.762	0.0762
$\alpha$ -Bisabolol	0.008 / 0.026	±0.0273	0.636	0.0636
Linalool	0.009 / 0.030	±0.0231	0.589	0.0589
Valencene	0.010 / 0.033	±0.0275	0.533	0.0533
Terpineol	0.008 / 0.025	±0.0308	0.503	0.0503
$\alpha$ -Humulene	0.009 / 0.031	±0.0118	0.219	0.0219
Fenchol	0.009 / 0.029	±0.0054	0.146	0.0146
Nerolidol	0.006 / 0.020	±0.0100	0.126	0.0126

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## Terpenoid Analysis *Continued*

### TERPENOID TEST RESULTS - 05/14/2024 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Borneol	0.004 / 0.014	±0.0034	0.073	0.0073
Fenchone	0.008 / 0.026	±0.0012	0.032	0.0032
Terpinolene	0.008 / 0.027	±0.0005	0.030	0.0030
Sabinene Hydrate	0.007 / 0.022	N/A	<LOQ	<LOQ
Camphene	0.004 / 0.014	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
α-Phellandrene	0.006 / 0.019	N/A	ND	ND
Δ <sup>3</sup> -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
γ-Terpinene	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
trans-β-Farnesene	0.008 / 0.028	N/A	ND	ND
Caryophyllene Oxide	0.011 / 0.038	N/A	ND	ND
Guaiol	0.011 / 0.035	N/A	ND	ND
Cedrol	0.009 / 0.032	N/A	ND	ND
<b>TOTAL TERPENOIDS</b>			<b>29.854 mg/g</b>	<b>2.9854%</b>

### 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.