CERTIFICATE OF ANALYSIS | HEMP QUALITY ASSURANCE TEST

Sample Name:

Papaya Punch

Flower, Inhalable

Date Issued:

01/06/2023

Date Collected: 01/09/2023   **Date Received:** 01/10/2023

Sample Details

Sample ID: ▉▉▉▉▉

Batch Number:

Batch Size:

Show Less

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| Copy link

Cultivator / Manufacturer

Business Name:

License Number:

Address:

Hide Details

Distributor / Tested For

Business Name: ▉▉▉▉▉

License Number:

Address:

▉▉▉▉▉▉▉▉▉▉

Hide Details

Cannabinoid Analysis - Summary

View Full Results

Total THC: **29.68%**

Total CBD: **1.29%**

Sum of Cannabinoids: **30.23%**

Total Cannabinoids: **27.75%**

Moisture: NT

Density: NT

Viscosity: NT

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 = Δ9THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN

Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ8THC + CBL + CBN

Why are Sum of Cannabinoids and Total Cannabinoids calculated separately? ⌄

Terpenoid Analysis - Summary | 35 TESTED, TOP 3 HIGHLIGHTED

View Full Results

Total Terpenoids: **1.937%**

1   Myrcene (0.569%)   2   β Caryophyllene (0.472%)   3   α Humulene (0.209%)

Safety Analysis - Summary

View Full Results

Pesticides: **Pass**   **Heavy Metals:** NT

Foreign Material: **Pass**   **Mycotoxins:** NT

Microbial Impurities (PCR): **Pass**   **Water Activity:** NT

Residual Solvents: NT   **Microbial Impurities (Plating):** NT

Vitamin E: NT

View Complete Test Results:

Expand All

🌿 | Cannabinoid Analysis   ⊘ **Pass**   Show More

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

Summary

Total THC:
30.68%
Total THC (Δ9THC+0.877*THCa)

Total CBD:
1.29%
Total CBD (CBD+0.877*CBDa)

Total CBG: 0.66%
Total CBG (CBG+0.877*CBGa)

Total THCV: NT
Total THCV (THCV+0.877*THCVa)

Total CBC: NT
Total CBC (CBC+0.877*CBCa)

Total CBDV: 0.12%

Total Cannabinoids: ⑦   Total CBDV (CBDV+0.877*CBDVα)

27.75%

Cannabinoid Test Results | 10/12/2023

Result Views

| Table | Pie Chart | Filter by

Compound	LOD/LOQ (mg/g) ⑦	Result (mg/g)	Result (%)
CBDA	0.005 / 0.1	**12.8**	**1.28**
THCA	0.006 / 0.1	**27.2**	**270.72**
CBGA	0.004 / 0.1	**7.2**	**0.72**
CBD	0.007 / 0.1	**2.6**	**0.26**
CBDVA	0.003 / 0.1	**1.4**	**0.14**
Δ9THC	0.003 / 0.1	**0.5**	**0.05**
CBG	0.006 / 0.1	**0.3**	**0.03**
CBC	0.006 / 0.1	**0.3**	**0.03**
Δ8THC	0.009 / 0.1	**ND**	**ND**
THCV	0.005 / 0.1	**ND**	**ND**
CBDV	0.003 / 0.1	**ND**	**ND**
CBN	0.003 / 0.1	**ND**	**ND**
SUM OF CANNABINOIDS		**302.3 mg/g**	**30.23%**

Moisture Test Result

Not Tested

Density Test Result

Not Tested

Viscosity Test Result

Not Tested

Learn more

The cannabis plant contains dozens of active compounds called cannabinoids (https://www.sclabs.com/cannabinoids/). These compounds are the primary contributors to the psychoactive effects of cannabis.

Cannabinoid testing (https://www.sclabs.com/cannabis/) determines the potency of a sample to aid in dosage considerations.

| Terpenoid Analysis ⊘ **Tested**   Show More

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

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

Summary

Total Terpenoids (mg/g):

19.37 mg/g

Total Terpenoids (%):

1.937%

Dominant Terpenoids

Below are this sample's 3 most abundant terpenoids by volume.

1   Myrcene
      0.569%

2   β Caryophyllene
      0.472%

3   α Humulene
      0.209%

Terpenoid Test Results | 10/13/2018

Result Views

Table	Bar Graph		Filter by

Compound	Result (mg/g)	Result (%)
Myrcene	5.69	0.569
β Caryophyllene	4.72	0.472
α Humulene	2.09	0.209
α Bisabolol	1.74	0.174
Guaiol	1.17	0.117
Ocimene	0.89	0.089
Limonene	0.76	0.076
α Pinene	0.51	0.051
Nerolidol	0.46	0.046
β Pinene	0.31	0.031
Linalool	0.29	0.029
Caryophyllene Oxide	0.23	0.023
Phytol	0.15	0.015
Fenchol	0.09	0.009
TOTAL	**19.37 mg/g**	**1.937%**

Compound	Result (mg/g)	Result (%)
Valencene	0.09	0.009
Terpineol	0.07	0.007
Borneol	0.04	0.004
Eucalyptol	0.03	0.003
Camphene	0.02	0.002
Terpinolene	0.01	0.001
Geraniol	0.01	0.001
Sabinene	0.00	0.000
α Phellandrene	0.00	0.000
3 Carene	0.00	0.000
α Terpinene	0.00	0.000
γ Terpinene	0.00	0.000
(-)-Isopulegol	0.00	0.000
Camphor	0.00	0.000
Isoborneol	0.00	0.000
Menthol	0.00	0.000
R-(+)-Pulegone	0.00	0.000
Geranyl Acetate	0.00	0.000
α Cedrene	0.00	0.000
p-Cymene	0.00	0.000
Citronellol	0.00	0.000
TOTAL	**19.37 mg/g**	**1.937%**

Learn more

Terpenoid analysis (https://www.sclabs.com/terpene-analysis/) is crucial for differentiating between strains of cannabis, as terpenoids (https://www.sclabs.com/terpene/) have a major influence on the medical and psychological effects of a plant. The relationship between cannabinoids and terpenoids is known as the "entourage effect."

Pesticide Analysis ⊘ **Pass**   Show More

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

Category 1 Pesticide Test Results | 10/13/2018 | TESTED

Filter by

Compound	LOD/LOQ (µg/g) ⑦	Action Limit (µg/g) ⑦	Result (µg/g)	Result

Category 2 Pesticide Test Results | 10/13/2018 | PASS

Filter by

Compound	LOD/LOQ (µg/g) ⑦	Action Limit (µg/g) ⑦	Result (µg/g)	Result
Abamectin	0.018935714 / 0.05	0.1	ND	Pass
Bifenazate	0.037841667 / 0.05	0.1	ND	Pass
Bifenthrin	0.002467857 / 0.25	3	ND	Pass
Boscalid	0.000589252 / 0.05	0.1	ND	Pass
Etoxazole	0.0000809524 / 0.05	0.1	ND	Pass
Imidacloprid	0.01730119 / 1.5	5	ND	Pass
Myclobutanil	0.00497619 / 0.05	0.1	ND	Pass
Piperonylbutoxide	0.000960714 / 1.5	3	ND	Pass
Pyrethrins	0.005771429 / 0.25	0.5	ND	Pass
Spinosad	0.016063095 / 0.05	0.1	ND	Pass
Spiromesifen	0.047424914 / 0.05	0.1	ND	Pass
Spirotetramat	0.056707143 / 0.05	0.1	ND	Pass

Learn more

Ingesting pesticides can be dangerous, even at the smallest doses. Our pesticide analysis (https://www.sclabs.com/pesticide-testing/) can detect trace amounts of chemical pesticides in dried flowers and cannabis concentrates.

Mycotoxin Analysis ⊘ **Not Tested**

Residual Solvents Analysis ⊘ **Not Tested**

Heavy Metals Analysis ⊘ **Not Tested**

Microbial Impurities Analysis ⊘ **Pass**   Show More

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

Method: QSP 1221 - Analysis of Microbial Impurities

Microbial Impurities Test Results (PCR) | 10/13/2018 | PASS   Filter by

Compound	Action Limit ⊘	Result	Result
Shiga toxin-producing *Escherichia coli*	Detect	**ND**	**Pass**
Salmonella spp.	Detect	**ND**	**Pass**
Aspergillus fumigatus	Detect	**ND**	**Pass**
Aspergillus flavus	Detect	**ND**	**Pass**
Aspergillus niger	Detect	**ND**	**Pass**
Aspergillus terreus	Detect	**ND**	**Pass**

Learn more

Microbial impurity testing (https://www.sclabs.com/microbial-impurity-testing/) detects microorganisms such as bacteria, fungi, and yeast that thrive in the same conditions needed for cultivation. Some of these, especially E. coli, can be extremely harmful when ingested.

Foreign Material Analysis ⊘ **Pass**   Show More

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

Foreign Material Test Results | 10/10/2018 | PASS   Filter by

Compound	Action Limit ⊘	Result
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	**Pass**
Total Sample Area Covered by Mold	>25%	**Pass**
Total Sample Area Covered by an Imbedded Foreign Material	>25%	**Pass**
Insect Fragment Count	> 1 per 3 grams	**Pass**
Hair Count	> 1 per 3 grams	**Pass**
Mammalian Excreta Count	> 1 per 3 grams	**Pass**

Learn more

Our lab staff carefully inspects samples for filth and foreign material including but not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products.

Water Activity Analysis 🚫 **Not Tested**

Vitamin E Analysis 🚫 **Not Tested**

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)

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