CERTIFICATE OF ANALYSIS | HEMP QUALITY ASSURANCE TEST

Sample Name:

Secret OG

Flower, Hemp Flower

Date Issued:
01/06/2020

Sample Details

Sample ID: 191004P008

Batch Number:
Show More

Cultivator / Manufacturer

Show Details

Distributor / Tested For

Show Details

(http://sclaboratories.s3.amazonaws.com/sample_photos/191004P008_1.jpg)

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Cannabinoid Analysis - Summary

View Full Results

Total THC: **0.5304%**

Total CBD: **11.9431%**

Sum of Cannabinoids: **15.4696%**

Total Cannabinoids: **13.7200%**

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

36 TESTED, TOP 3 HIGHLIGHTED

View Full Results

Total Terpenoids: 1.5212%

1. β Caryophyllene (0.6224%)
2. Myrcene (0.3117%)
3. α Humulene (0.2071%)

Safety Analysis - Summary

View Full Results

Pesticides: Pass

Heavy Metals: NT

Foreign Material: NT

Mycotoxins: NT

Microbial Impurities (PCR): Pass

Water Activity: NT

Residual Solvents: NT

Microbial Impurities (Plating): NT

Vitamin E Acetate: NT

View Complete Test Results: Collapse All

Cannabinoid Analysis Pass

Show Less

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

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

Summary

Total THC:
0.5304%
Total THC (Δ9THC+0.877*THCa)

Total CBD:
11.9431%
Total CBD (CBD+0.877*CBDa)

Total Cannabinoids:
13.7200%

Total CBG: 0.6767%
Total CBG (CBG+0.877*CBGa)

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

Total CBC: 0.5401%
Total CBC (CBC+0.877*CBCa)

Total CBDV: 0.0297%
Total CBDV (CBDV+0.877*CBDVa)

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.

Cannabinoid Test Results | 10/06/2019

Result Views

Table | Pie Chart

Filter by

Swipe left on table to see additional columns

Compound	LOD/LOQ (mg/g)	Result (mg/g)	Result (%)
CBDA	0.052 / 0.156	**124.692**	**12.4692**
CBD	0.059 / 0.180	**10.076**	**1.0076**
CBGA	0.034 / 0.102	**6.570**	**0.6570**
CBCA	0.233 / 0.705	**6.159**	**0.6159**
THCA	0.052 / 0.156	**4.478**	**0.4478**
Δ9THC	0.052 / 0.158	**1.377**	**0.1377**
CBG	0.048 / 0.144	**1.005**	**0.1005**
CBDVA	0.030 / 0.090	**0.339**	**0.0339**
Δ8THC	0.074 / 0.224	**ND**	**ND**
THCV	0.045 / 0.137	**ND**	**ND**
THCVA	0.088 / 0.267	**ND**	**ND**
CBDV	0.027 / 0.080	**ND**	**ND**
CBL	0.114 / 0.346	**ND**	**ND**
CBN	0.052 / 0.157	**ND**	**ND**
CBC	0.048 / 0.146	**ND**	**ND**
SUM OF CANNABINOIDS		**154.696 mg/g**	**15.4696%**

Moisture Test Result

Not Tested

Density Test Result

Not Tested

Viscosity Test Result

Not Tested

Terpenoid Analysis Tested

Show Less

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

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

Summary

Total Terpenoids (mg/g):

15.212 mg/g

Total Terpenoids (%):

1.5212%

Dominant Terpenoids

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

1 β Caryophyllene
0.6224%

2 Myrcene
0.3117%

3 α Humulene
0.2071%

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 terpeneoids is known as the "entourage effect."

Terpenoid Test Results | 10/06/2019

Result Views

Table | Bar Graph

Filter by

Swipe left on table to see additional columns

Compound	LOD/LOQ (mg/g) ⓘ	Result (mg/g)	Result (%)
β Caryophyllene	0.029 / 0.087	**6.224**	**0.6224**
Myrcene	0.03 / 0.092	**3.117**	**0.3117**
α Humulene	0.017 / 0.051	**2.071**	**0.2071**
α Bisabolol	0.057 / 0.172	**1.299**	**0.1299**
TOTAL		**15.212 mg/g**	**1.5212%**

Compound	LOD/LOQ (mg/g) ⓘ	Result (mg/g)	Result (%)
Limonene	0.04 / 0.12	**1.11**	**0.111**
Linalool	0.043 / 0.13	**0.50**	**0.050**
α Pinene	0.028 / 0.084	**0.202**	**0.0202**
Nerolidol	0.05 / 0.15	**0.17**	**0.017**
β Pinene	0.016 / 0.048	**0.155**	**0.0155**
Caryophyllene Oxide	0.011 / 0.034	**0.145**	**0.0145**
Terpineol	0.029 / 0.087	**0.140**	**0.0140**
Valencene	0.018 / 0.055	**0.079**	**0.0079**
Eucalyptol	0.051 / 0.155	**<LOQ**	**<LOQ**
Fenchol	0.051 / 0.153	**<LOQ**	**<LOQ**
Guaiol	0.035 / 0.106	**<LOQ**	**<LOQ**
Camphene	0.038 / 0.116	**ND**	**ND**
Sabinene	0.024 / 0.073	**ND**	**ND**
α Phellandrene	0.048 / 0.144	**ND**	**ND**
3 Carene	0.028 / 0.085	**ND**	**ND**
α Terpinene	0.051 / 0.155	**ND**	**ND**
Ocimene	0.053 / 0.16	**ND**	**ND**
γ Terpinene	0.038 / 0.114	**ND**	**ND**
Sabinene Hydrate	0.046 / 0.138	**ND**	**ND**
Fenchone	0.06 / 0.181	**ND**	**ND**
Terpinolene	0.042 / 0.128	**ND**	**ND**
TOTAL		**15.212 mg/g**	**1.5212%**

Compound	LOD/LOQ (mg/g) ⓘ	Result (mg/g)	Result (%)
(-)-Isopulegol	0.026 / 0.08	ND	ND
Camphor	0.08 / 0.242	ND	ND
Isoborneol	0.028 / 0.085	ND	ND
Borneol	0.063 / 0.19	ND	ND
Menthol	0.043 / 0.129	ND	ND
Nerol	0.042 / 0.128	ND	ND
R-(+)-Pulegone	0.016 / 0.047	ND	ND
Geraniol	0.037 / 0.112	ND	ND
Geranyl Acetate	0.025 / 0.076	ND	ND
α Cedrene	0.012 / 0.035	ND	ND
Cedrol	0.022 / 0.066	ND	ND
TOTAL		**15.212 mg/g**	**1.5212%**

Pesticide Analysis Pass

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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 | 10/06/2019 | TESTED

Filter by

Swipe left on table to see additional columns

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

Category 2 Pesticide Test Results | 10/06/2019 | PASS

Filter by

Swipe left on table to see additional columns

Compound	LOD/LOQ (µg/g) ⓘ	Action Limit (µg/g) ⓘ	Result (µg/g)	Result
Abamectin	0.030 / 0.091	0.1	**ND**	**Pass**
Bifenazate	0.012 / 0.035	0.1	**ND**	**Pass**
Bifenthrin	0.013 / 0.038	3.0	**ND**	**Pass**
Boscalid	0.008 / 0.023	0.1	**ND**	**Pass**
Etoxazole	0.007 / 0.022	0.1	**ND**	**Pass**
Imidacloprid	0.017 / 0.050	5.0	**ND**	**Pass**
Myclobutanil	0.015 / 0.044	0.1	**ND**	**Pass**
Piperonylbutoxide	0.007 / 0.020	3.0	**ND**	**Pass**
Pyrethrins	0.012 / 0.036	0.5	**ND**	**Pass**
Spinosad	0.010 / 0.031	0.1	**ND**	**Pass**
Spiromesifen	0.005 / 0.015	0.1	**ND**	**Pass**
Spirotetramat	0.014 / 0.042	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 Less

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) | 10/07/2019 | PASS

Filter by

Swipe left on table to see additional columns

Compound	Action Limit	Result	Result
Shiga toxin-producing *Escherichia coli*	ND	**ND**	**Pass**
***Salmonella* spp.**	ND	**ND**	**Pass**
Aspergillus fumigatus	ND	**ND**	**Pass**
Aspergillus flavus	ND	**ND**	**Pass**
Aspergillus niger	ND	**ND**	**Pass**
Aspergillus terreus	ND	**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	Not Tested
Water Activity Analysis	Not Tested
Vitamin E Analysis	Not Tested

COA ID: 191004P008-003

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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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