Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 10/25/2021

SAMPLE NAME: FS PUFF Fire OG

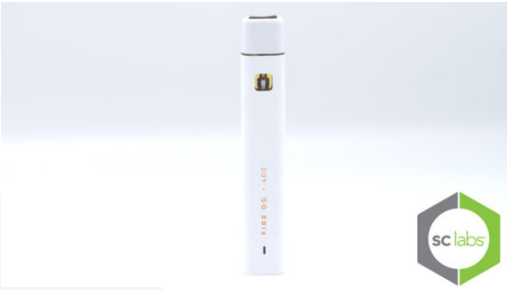
Concentrate, Hemp

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: AVIDA CBD
License Number:
Address:
CA



SAMPLE DETAIL

Batch Number: FSPFOG400210928
Sample ID: 211022T002

Date Collected: 10/22/2021
Date Received: 10/22/2021
Batch Size:
Sample Size:
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.066%

Total CBD: 45.168%

Sum of Cannabinoids: 58.473%

Total Cannabinoids: 58.47%

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

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 5.138%

- Limonene 13.415 mg/g
- β Caryophyllene 10.332 mg/g
- Myrcene 8.578 mg/g

SAFETY ANALYSIS - SUMMARY

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: Reza Naemeh
Date: 10/25/2021

Approved by: Josh Wurzer, President
Date: 10/25/2021

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: 0.066%
Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 45.168%
Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 58.47%
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 10.645%
Total CBG (CBG+0.877*CBGa)

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

TOTAL CBC: 0.06%
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 2.444%
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/25/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.07 / 0.29*	*±20.913*	451.68	45.168
CBG	*0.06 / 0.19*	*±4.194*	106.45	10.645
CBDV	*0.04 / 0.15*	*±1.066*	24.44	2.444
CBN	*0.1 / 0.3*	*±0.06*	0.9	0.09
Δ9THC	*0.06 / 0.26*	*±0.023*	0.66	0.066
CBC	*0.2 / 0.5*	*±0.02*	0.6	0.06
Δ8THC	*0.1 / 0.4*	*N/A*	ND	ND
THCa	*0.05 / 0.14*	*N/A*	ND	ND
THCV	*0.1 / 0.2*	*N/A*	ND	ND
THCVa	*0.07 / 0.20*	*N/A*	ND	ND
CBDa	*0.02 / 0.19*	*N/A*	ND	ND
CBDVa	*0.03 / 0.53*	*N/A*	ND	ND
CBGa	*0.1 / 0.2*	*N/A*	ND	ND
CBL	*0.06 / 0.24*	*N/A*	ND	ND
CBCa	*0.07 / 0.28*	*N/A*	ND	ND
SUM OF CANNABINOIDS			584.73 mg/g	58.473%

Terpenoid Analysis

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

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

1 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.

2 β Caryophyllene
A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB_2 receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

3 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 - 10/25/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	*0.005 / 0.016*	*±0.1918*	13.415	1.3415
β Caryophyllene	*0.004 / 0.012*	*±0.3678*	10.332	1.0332
Myrcene	*0.008 / 0.025*	*±0.1107*	8.578	0.8578
α Bisabolol	*0.008 / 0.026*	*±0.3256*	6.098	0.6098
Linalool	*0.009 / 0.032*	*±0.1343*	3.535	0.3535
β Pinene	*0.004 / 0.014*	*±0.0287*	2.495	0.2495
Terpineol	*0.016 / 0.055*	*±0.0996*	1.622	0.1622
Fenchol	*0.010 / 0.034*	*±0.0544*	1.406	0.1406
α Pinene	*0.005 / 0.017*	*±0.0110*	1.282	0.1282
α Phellandrene	*0.006 / 0.020*	*±0.0081*	0.598	0.0598
Camphene	*0.005 / 0.015*	*±0.0037*	0.318	0.0318
Terpinolene	*0.008 / 0.026*	*±0.0056*	0.271	0.0271
α Humulene	*0.009 / 0.029*	*±0.0071*	0.222	0.0222
Caryophyllene Oxide	*0.010 / 0.033*	*±0.0101*	0.220	0.0220
Geraniol	*0.002 / 0.007*	*±0.0068*	0.155	0.0155
Camphor	*0.006 / 0.019*	*±0.0055*	0.154	0.0154
Nerolidol	*0.009 / 0.028*	*±0.0091*	0.145	0.0145
α Cedrene	*0.005 / 0.016*	*±0.0037*	0.122	0.0122
3 Carene	*0.005 / 0.018*	*±0.0014*	0.098	0.0098
Guaiol	*0.009 / 0.030*	*±0.0035*	0.075	0.0075
Sabinene	*0.004 / 0.014*	*±0.0008*	0.063	0.0063
α Terpinene	*0.005 / 0.017*	*±0.0006*	0.042	0.0042
Menthol	*0.008 / 0.025*	*±0.0017*	0.042	0.0042
trans-β-Farnesene	*0.008 / 0.025*	*±0.0012*	0.033	0.0033
p-Cymene	*0.005 / 0.016*	*±0.0008*	0.029	0.0029
Isoborneol	*0.004 / 0.012*	*±0.0007*	0.018	0.0018
Nerol	*0.003 / 0.011*	*±0.0005*	0.012	0.0012
Ocimene	*0.011 / 0.038*	*N/A*	<LOQ	<LOQ
γ Terpinene	*0.006 / 0.018*	*N/A*	<LOQ	<LOQ
Eucalyptol	*0.006 / 0.018*	*N/A*	ND	ND
Sabinene Hydrate	*0.006 / 0.022*	*N/A*	ND	ND
Fenchone	*0.009 / 0.028*	*N/A*	ND	ND
(-)-Isopulegol	*0.005 / 0.016*	*N/A*	ND	ND
Borneol	*0.005 / 0.016*	*N/A*	ND	ND
Citronellol	*0.003 / 0.010*	*N/A*	ND	ND
R-(+)-Pulegone	*0.003 / 0.011*	*N/A*	ND	ND
Geranyl Acetate	*0.004 / 0.014*	*N/A*	ND	ND
Valencene	*0.009 / 0.030*	*N/A*	ND	ND
Cedrol	*0.008 / 0.027*	*N/A*	ND	ND
TOTAL TERPENOIDS			51.380 mg/g	5.138%