

**SAMPLE NAME: FS PUFF Blueberry**

Concentrate, Hemp

**CULTIVATOR / MANUFACTURER**

**Business Name:**

**License Number:**

**Address:**

**DISTRIBUTOR / TESTED FOR**

**Business Name: AVIDA CBD**

**License Number:**

**Address:**  
CA



**SAMPLE DETAIL**

**Batch Number:** FSPB400210928

**Sample ID:** 211022T005

**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: 0.113%**

**Total CBD: 45.039%**

**Sum of Cannabinoids: 58.307%**

**Total Cannabinoids: 58.31%**

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

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

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

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

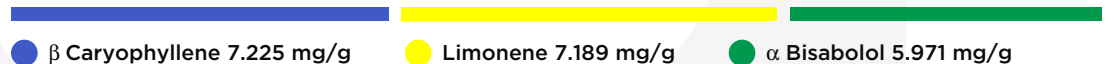
$(\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) +$

$(\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

**TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids: 4.0526%**



**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: 0.113%**

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

**TOTAL CBD: 45.039%**

Total CBD (CBD+0.877\*CBDa)

**TOTAL CANNABINOIDS: 58.31%**

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

**TOTAL CBG: 10.665%**

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: 2.43%**

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	±20.853	450.39	45.039
CBG	0.06 / 0.19	±4.202	106.65	10.665
CBDV	0.04 / 0.15	±1.059	24.30	2.430
$\Delta 9$ THC	0.06 / 0.26	±0.039	1.13	0.113
CBC	0.2 / 0.5	±0.02	0.6	0.06
$\Delta 8$ THC	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
CBN	0.1 / 0.3	N/A	ND	ND
CBCa	0.07 / 0.28	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>583.07 mg/g</b>	<b>58.307%</b>





## Terpenoid Analysis

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

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

### 1 $\beta$ 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<sub>2</sub> receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

### 2 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.

### 3 $\alpha$ Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.

## TERPENOID TEST RESULTS - 10/25/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
$\beta$ Caryophyllene	0.004 / 0.012	±0.2572	7.225	0.7225
Limonene	0.005 / 0.016	±0.1028	7.189	0.7189
$\alpha$ Bisabolol	0.008 / 0.026	±0.3189	5.971	0.5971
Myrcene	0.008 / 0.025	±0.0628	4.867	0.4867
Terpinolene	0.008 / 0.026	±0.0953	4.647	0.4647
$\beta$ Pinene	0.004 / 0.014	±0.0251	2.186	0.2186
Linalool	0.009 / 0.032	±0.0817	2.150	0.2150
$\alpha$ Pinene	0.005 / 0.017	±0.0107	1.240	0.1240
Fenchol	0.010 / 0.034	±0.0460	1.189	0.1189
Terpineol	0.016 / 0.055	±0.0688	1.121	0.1121
$\alpha$ Phellandrene	0.006 / 0.020	±0.0066	0.482	0.0482
Caryophyllene Oxide	0.010 / 0.033	±0.0155	0.338	0.0338
$\alpha$ Humulene	0.009 / 0.029	±0.0100	0.311	0.0311
3 Carene	0.005 / 0.018	±0.0041	0.291	0.0291
Camphene	0.005 / 0.015	±0.0022	0.194	0.0194
$\alpha$ Cedrene	0.005 / 0.016	±0.0044	0.148	0.0148
Geraniol	0.002 / 0.007	±0.0065	0.147	0.0147
Nerolidol	0.009 / 0.028	±0.0079	0.126	0.0126
Nerol	0.003 / 0.011	±0.0050	0.112	0.0112
$\alpha$ Terpinene	0.005 / 0.017	±0.0016	0.110	0.0110
Camphor	0.006 / 0.019	±0.0032	0.091	0.0091
Sabinene	0.004 / 0.014	±0.0009	0.079	0.0079
Guaiol	0.009 / 0.030	±0.0034	0.073	0.0073
p-Cymene	0.005 / 0.016	±0.0017	0.065	0.0065
$\gamma$ Terpinene	0.006 / 0.018	±0.0009	0.052	0.0052
Isoborneol	0.004 / 0.012	±0.0015	0.036	0.0036
Menthol	0.008 / 0.025	±0.0012	0.030	0.0030
trans- $\beta$ -Farnesene	0.008 / 0.025	±0.0011	0.030	0.0030
Citronellol	0.003 / 0.010	±0.0013	0.026	0.0026
Eucalyptol	0.006 / 0.018	N/A	<LOQ	<LOQ
Ocimene	0.011 / 0.038	N/A	<LOQ	<LOQ
(-)-Isopulegol	0.005 / 0.016	N/A	<LOQ	<LOQ
Valencene	0.009 / 0.030	N/A	<LOQ	<LOQ
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009 / 0.028	N/A	ND	ND
Borneol	0.005 / 0.016	N/A	ND	ND
R-(+)-Pulegone	0.003 / 0.011	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
<b>TOTAL TERPENOIDS</b>			<b>40.526 mg/g</b>	<b>4.0526%</b>

