

**SAMPLE NAME: FS PUFF Gelato**

Concentrate, Hemp

**CULTIVATOR / MANUFACTURER**

**Business Name:**

**License Number:**

**Address:**

**DISTRIBUTOR / TESTED FOR**

**Business Name: AVIDA CBD**

**License Number:**

**Address:**  
CA



**SAMPLE DETAIL**

**Batch Number:** FSPG400210928

**Sample ID:** 211022T003

**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: 0.043%**

**Total CBD: 45.062%**

**Sum of Cannabinoids: 58.415%**

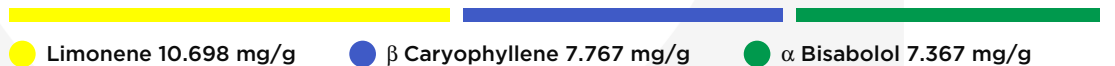
**Total Cannabinoids: 58.42%**

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: 4.525%**



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)

*Valentin Berdeja*  
 Date: 10/26/2021

*Josh Wurzer*  
 Approved by: Josh Wurzer, President  
 Date: 10/26/2021



## 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: 0.043%**

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

**TOTAL CBD: 45.062%**

Total CBD (CBD+0.877\*CBDA)

**TOTAL CANNABINOIDS: 58.42%**

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

**TOTAL CBG: 10.729%**

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: 2.431%**

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	±20.864	450.62	45.062
CBG	0.06 / 0.19	±4.227	107.29	10.729
CBDV	0.04 / 0.15	±1.060	24.31	2.431
CBN	0.1 / 0.3	±0.06	0.9	0.09
CBC	0.2 / 0.5	±0.02	0.6	0.06
$\Delta 9$ THC	0.06 / 0.26	±0.015	0.43	0.043
$\Delta 8$ 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
CBCa	0.07 / 0.28	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>584.15 mg/g</b>	<b>58.415%</b>



## 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.

### TERPENOID TEST RESULTS - 10/25/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	0.005 / 0.016	±0.1530	10.698	1.0698
$\beta$ Caryophyllene	0.004 / 0.012	±0.2765	7.767	0.7767
$\alpha$ Bisabolol	0.008 / 0.026	±0.3934	7.367	0.7367
Linalool	0.009 / 0.032	±0.1402	3.690	0.3690
Myrcene	0.008 / 0.025	±0.0448	3.470	0.3470
$\beta$ Pinene	0.004 / 0.014	±0.0288	2.508	0.2508
Caryophyllene Oxide	0.010 / 0.033	±0.0940	2.043	0.2043
Fenchol	0.010 / 0.034	±0.0743	1.919	0.1919
Terpineol	0.016 / 0.055	±0.0974	1.586	0.1586
$\alpha$ Pinene	0.005 / 0.017	±0.0113	1.314	0.1314
$\alpha$ Phellandrene	0.006 / 0.020	±0.0058	0.423	0.0423
$\alpha$ Humulene	0.009 / 0.029	±0.0122	0.379	0.0379
Terpinolene	0.008 / 0.026	±0.0069	0.337	0.0337



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 **Terpenoid Analysis** *Continued*

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

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

**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<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.

**3** **α 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 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Camphene	0.005 / 0.015	±0.0036	0.313	0.0313
3 Carene	0.005 / 0.018	±0.0031	0.216	0.0216
Nerol	0.003 / 0.011	±0.0095	0.215	0.0215
Geraniol	0.002 / 0.007	±0.0073	0.165	0.0165
Nerolidol	0.009 / 0.028	±0.0102	0.162	0.0162
Camphor	0.006 / 0.019	±0.0053	0.150	0.0150
Sabinene	0.004 / 0.014	±0.0016	0.133	0.0133
α Cedrene	0.005 / 0.016	±0.0034	0.112	0.0112
Guaial	0.009 / 0.030	±0.0038	0.081	0.0081
p-Cymene	0.005 / 0.016	±0.0019	0.072	0.0072
Citronellol	0.003 / 0.010	±0.0021	0.043	0.0043
Menthol	0.008 / 0.025	±0.0013	0.033	0.0033
trans-β-Farnesene	0.008 / 0.025	±0.0011	0.032	0.0032
Isoborneol	0.004 / 0.012	±0.0009	0.022	0.0022
γ Terpinene	0.006 / 0.018	N/A	<LOQ	<LOQ
(-)-Isopulegol	0.005 / 0.016	N/A	<LOQ	<LOQ
Valencene	0.009 / 0.030	N/A	<LOQ	<LOQ
α Terpinene	0.005 / 0.017	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
Ocimene	0.011 / 0.038	N/A	ND	ND
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>45.250 mg/g</b>	<b>4.525%</b>

