Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 04/10/2021

SAMPLE NAME: Hemp Smokes Original

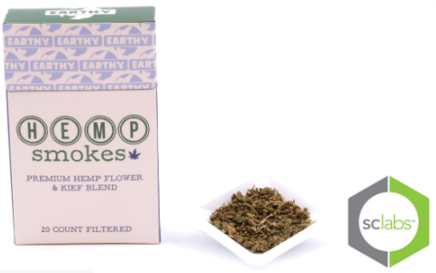
Flower, Inhalable

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: Earthy Now
License Number:
Address:



SAMPLE DETAIL

Batch Number:
Sample ID: 210407V019

Date Collected: 04/07/2021
Date Received: 04/07/2021
Batch Size:
Sample Size: 11.0 grams
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.238%

Total CBD: 8.906%

Sum of Cannabinoids: 10.838%

Total Cannabinoids: 9.842%

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

Moisture: NT

Density: NT

Viscosity: NT

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.3211%

α Bisabolol 1.051 mg/g | Guaiol 0.540 mg/g | β Caryophyllene 0.467 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: **NT**
Heavy Metals: **NT**
Foreign Material: **NT**
Mycotoxins: **NT**
Microbial Impurities (PCR): **NT**
Water Activity: **NT**
Residual Solvents: **NT**
Microbial Impurities (Plating): **NT**
Vitamin E: **NT**

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: Michael Pham
Date: 04/10/2021

Approved by: Josh Wurzer, President
Date: 04/10/2021

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: 0.238%
Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 8.906%
Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 9.842%
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 0.26%
Total CBG (CBG+0.877*CBGa)

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

TOTAL CBC: 0.37%
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.04%
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 04/09/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBDa	*0.06 / 0.22*	*±3.193*	75.67	7.567
CBD	*0.1 / 0.3*	*±1.24*	22.7	2.27
CBCa	*0.1 / 0.4*	*±0.21*	2.4	0.24
CBGa	*0.1 / 0.4*	*±0.13*	1.9	0.19
Δ9THC	*0.1 / 0.4*	*±0.07*	1.7	0.17
CBC	*0.1 / 0.2*	*±0.07*	1.6	0.16
CBG	*0.2 / 0.5*	*±0.08*	0.9	0.09
THCa	*0.04 / 0.24*	*±0.032*	0.77	0.077
CBDVa	*0.02 / 0.22*	*±0.005*	0.46	0.046
CBN	*0.07 / 0.20*	*±0.013*	0.28	0.028
Δ8THC	*0.05 / 0.50*	*N/A*	ND	ND
THCV	*0.07 / 0.21*	*N/A*	ND	ND
THCVa	*0.05 / 0.17*	*N/A*	ND	ND
CBDV	*0.1 / 0.3*	*N/A*	ND	ND
CBL	*0.1 / 0.4*	*N/A*	ND	ND
SUM OF CANNABINOIDS			108.38 mg/g	10.838%

MOISTURE TEST RESULT	DENSITY TEST RESULT	VISCOSITY TEST RESULT
Not Tested	Not Tested	Not Tested

Terpenoid Analysis

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

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

1 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.

2 Guaiol
A sesquiterpene alcohol with a fragrance that can be described as floral, piney, herbal and woody. Found in guaiacum, cypress pine, ginseng, melaleuca, goatweed, incense grass...etc.

3 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.

TERPENOID TEST RESULTS - 04/10/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α Bisabolol	*0.008 / 0.026*	*±0.0581*	**1.051**	**0.1051**
Guaiol	*0.011 / 0.035*	*±0.0377*	**0.540**	**0.0540**
β Caryophyllene	*0.004 / 0.013*	*±0.0323*	**0.467**	**0.0467**
Caryophyllene Oxide	*0.011 / 0.038*	*±0.0182*	**0.239**	**0.0239**
α Humulene	*0.009 / 0.031*	*±0.0149*	**0.216**	**0.0216**
R-(+)-Pulegone	*0.003 / 0.010*	*±0.0128*	**0.150**	**0.0150**
Nerolidol	*0.008 / 0.028*	*±0.0087*	**0.086**	**0.0086**
Myrcene	*0.007 / 0.025*	*±0.0039*	**0.085**	**0.0085**
Linalool	*0.009 / 0.030*	*±0.0034*	**0.067**	**0.0067**
Terpineol	*0.014 / 0.046*	*±0.0042*	**0.053**	**0.0053**
trans-β-Farnesene	*0.008 / 0.028*	*±0.0036*	**0.049**	**0.0049**
α Pinene	*0.005 / 0.015*	*±0.0019*	**0.042**	**0.0042**
Fenchol	*0.009 / 0.029*	*±0.0018*	**0.038**	**0.0038**
Borneol	*0.004 / 0.014*	*±0.0019*	**0.032**	**0.0032**
Limonene	*0.005 / 0.016*	*±0.0013*	**0.031**	**0.0031**
Geraniol	*0.002 / 0.007*	*±0.0017*	**0.026**	**0.0026**
Geranyl Acetate	*0.004 / 0.012*	*±0.0016*	**0.022**	**0.0022**
β Pinene	*0.004 / 0.015*	*±0.0007*	**0.017**	**0.0017**
p-Cymene	*0.005 / 0.015*	*N/A*	**<LOQ**	**<LOQ**
Eucalyptol	*0.005 / 0.018*	*N/A*	**<LOQ**	**<LOQ**
γ Terpinene	*0.005 / 0.018*	*N/A*	**<LOQ**	**<LOQ**
Valencene	*0.010 / 0.033*	*N/A*	**<LOQ**	**<LOQ**
Camphene	*0.004 / 0.014*	*N/A*	**ND**	**ND**
Sabinene	*0.004 / 0.014*	*N/A*	**ND**	**ND**
α Phellandrene	*0.006 / 0.019*	*N/A*	**ND**	**ND**
3 Carene	*0.005 / 0.018*	*N/A*	**ND**	**ND**
α Terpinene	*0.006 / 0.019*	*N/A*	**ND**	**ND**
Ocimene	*0.015 / 0.034*	*N/A*	**ND**	**ND**
Sabinene Hydrate	*0.007 / 0.022*	*N/A*	**ND**	**ND**
Fenchone	*0.008 / 0.026*	*N/A*	**ND**	**ND**
Terpinolene	*0.008 / 0.027*	*N/A*	**ND**	**ND**
(-)-Isopulegol	*0.004 / 0.013*	*N/A*	**ND**	**ND**
Camphor	*0.005 / 0.015*	*N/A*	**ND**	**ND**
Isoborneol	*0.003 / 0.011*	*N/A*	**ND**	**ND**
Menthol	*0.008 / 0.025*	*N/A*	**ND**	**ND**
Nerol	*0.003 / 0.011*	*N/A*	**ND**	**ND**
Citronellol	*0.003 / 0.010*	*N/A*	**ND**	**ND**
α Cedrene	*0.005 / 0.017*	*N/A*	**ND**	**ND**
Cedrol	*0.009 / 0.032*	*N/A*	**ND**	**ND**
TOTAL TERPENOIDS			**3.211 mg/g**	**0.3211%**