Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 02/19/2021

SAMPLE NAME: CBD Salve Lavender

Infused, Topical

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: Sisters Of The Valley

License Number:

Address:
Merced CA 95348

SAMPLE DETAIL

Batch Number: Birch Moon Jan 2021 (b)

Sample ID: 210216W007

Date Collected: 02/16/2021

Date Received: 02/16/2021

Batch Size:

Sample Size:

Unit Mass:

Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.160 mg/g

Total CBD: 4.422 mg/g

Sum of Cannabinoids: 5.002 mg/g

Total Cannabinoids: 4.858 mg/g

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

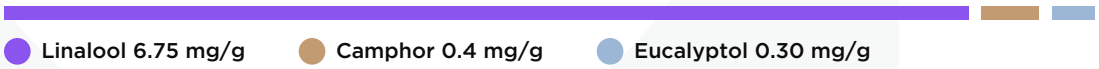
Density: NT

Viscosity: NT

TERPENOID ANALYSIS - SUMMARY

36 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.799%



Linalool 6.75 mg/g

Camphor 0.4 mg/g

Eucalyptol 0.30 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 Acetate: 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: Kevin Flores
Date: 02/19/2021

Approved by: Josh Wurzer, President
Date: 02/19/2021

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: 0.160 mg/g
Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 4.422 mg/g
Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 4.858 mg/g
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 0.092 mg/g
Total CBG (CBG+0.877*CBGa)

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

TOTAL CBC: 0.172 mg/g
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: ND
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 02/18/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±0.1650*	3.445	0.3445
CBDa	*0.001 / 0.026*	*±0.0407*	1.114	0.1114
Δ9THC	*0.002 / 0.014*	*±0.0108*	0.153	0.0153
CBC	*0.003 / 0.010*	*±0.0059*	0.143	0.0143
CBG	*0.002 / 0.006*	*±0.0048*	0.077	0.0077
CBCa	*0.001 / 0.015*	*±0.0016*	0.033	0.0033
CBGa	*0.002 / 0.007*	*±0.0005*	0.017	0.0017
CBN	*0.001 / 0.007*	*±0.0004*	0.012	0.0012
THCa	*0.001 / 0.005*	*±0.0002*	0.008	0.0008
Δ8THC	*0.01 / 0.02*	*N/A*	ND	ND
THCV	*0.002 / 0.012*	*N/A*	ND	ND
THCVa	*0.002 / 0.019*	*N/A*	ND	ND
CBDV	*0.002 / 0.012*	*N/A*	ND	ND
CBDVa	*0.001 / 0.018*	*N/A*	ND	ND
CBL	*0.003 / 0.010*	*N/A*	ND	ND
SUM OF CANNABINOIDS			5.002 mg/g	0.5002%

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). 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

1 Linalool
A monoterpenoid alcohol with a fragrance that can be described as spicy, waxy, citrus and floral. It is commonly used as an insecticide against cockroaches, flies, fleas and other insects. Found in bail, lavender, cinnamon, hops, mugwort, goldenrods...etc.

2 Camphor
A monoterpenoid ketone with a pungent fragrance that is as reminiscent of mothballs. It is commonly derived from *Cinnamomum* camphora, from which it lends its lame. It is a constituent of turpentine and has been used by certain cultures as an embalming fluid due to its antimicrobial effects. Found in camphor laurel, rosemary, East African camphorwood, goldenasters, coriander, feverfew, tarragon, nutmeg, sweet wormwood, yerba buena, mountain mint, hyssop, forskohlii, tansy, thyme, turmeric...etc.

3 Eucalyptol
A monoterpenoid alcohol with a fragrance that can be described as a combination of fresh, spicy, herbal and minty. It is sometimes added to cigarettes and mouthwashes as a flavorant. Although sometimes used as an insect repellant, it is a powerful attractant to certain male bees. Found in eucalyptus, rosemary, wormwood, sage...etc.

TERPENOID TEST RESULTS - 02/19/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Linalool	*0.03 / 0.08*	*±0.350*	**6.75**	**0.675**
Camphor	*0.1 / 0.2*	*±0.02*	**0.4**	**0.04**
Eucalyptol	*0.03 / 0.08*	*±0.016*	**0.30**	**0.030**
Menthol	*0.03 / 0.09*	*±0.015*	**0.25**	**0.025**
β Caryophyllene	*0.02 / 0.07*	*±0.010*	**0.21**	**0.021**
α Humulene	*0.02 / 0.05*	*±0.003*	**0.08**	**0.008**
Limonene	*0.02 / 0.05*	*N/A*	**<LOQ**	**<LOQ**
Borneol	*0.1 / 0.2*	*N/A*	**<LOQ**	**<LOQ**
Terpineol	*0.02 / 0.07*	*N/A*	**<LOQ**	**<LOQ**
Caryophyllene Oxide	*0.04 / 0.11*	*N/A*	**<LOQ**	**<LOQ**
α Bisabolol	*0.02 / 0.07*	*N/A*	**<LOQ**	**<LOQ**
α Pinene	*0.03 / 0.09*	*N/A*	**ND**	**ND**
Camphene	*0.04 / 0.11*	*N/A*	**ND**	**ND**
Sabinene	*0.04 / 0.11*	*N/A*	**ND**	**ND**
β Pinene	*0.04 / 0.11*	*N/A*	**ND**	**ND**
Myrcene	*0.04 / 0.11*	*N/A*	**ND**	**ND**
α Phellandrene	*0.05 / 0.1*	*N/A*	**ND**	**ND**
3 Carene	*0.04 / 0.1*	*N/A*	**ND**	**ND**
α Terpinene	*0.04 / 0.1*	*N/A*	**ND**	**ND**
Ocimene	*0.03 / 0.09*	*N/A*	**ND**	**ND**
γ Terpinene	*0.04 / 0.1*	*N/A*	**ND**	**ND**
Sabinene Hydrate	*0.02 / 0.07*	*N/A*	**ND**	**ND**
Fenchone	*0.04 / 0.12*	*N/A*	**ND**	**ND**
Terpinolene	*0.03 / 0.09*	*N/A*	**ND**	**ND**
Fenchol	*0.03 / 0.09*	*N/A*	**ND**	**ND**
(-)-Isopulegol	*0.02 / 0.05*	*N/A*	**ND**	**ND**
Isoborneol	*0.04 / 0.1*	*N/A*	**ND**	**ND**
Nerol	*0.03 / 0.09*	*N/A*	**ND**	**ND**
R-(+)-Pulegone	*0.03 / 0.09*	*N/A*	**ND**	**ND**
Geraniol	*0.02 / 0.07*	*N/A*	**ND**	**ND**
Geranyl Acetate	*0.02 / 0.06*	*N/A*	**ND**	**ND**
α Cedrene	*0.02 / 0.07*	*N/A*	**ND**	**ND**
Valencene	*0.01 / 0.03*	*N/A*	**ND**	**ND**
Nerolidol	*0.3 / 0.8*	*N/A*	**ND**	**ND**
Guaiol	*0.03 / 0.09*	*N/A*	**ND**	**ND**
Cedrol	*0.04 / 0.11*	*N/A*	**ND**	**ND**
TOTAL TERPENOIDS			**7.99 mg/g**	**0.799%**