

SAMPLE NAME: Herbal Armor

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: Santa Lucia Salve Company

License Number:

Address:
CA

SAMPLE DETAIL

Batch Number:

Sample ID: 211206R018

Date Collected: 12/06/2021

Date Received: 12/06/2021

Batch Size:

Sample Size:

Unit Mass: 56.7 grams per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: **3.912 mg/unit**

Total CBD: **151.956 mg/unit**

Sum of Cannabinoids: **208.032 mg/unit**

Total Cannabinoids: **208.032 mg/unit**

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: **0.8728%**



α Pinene 2.805 mg/g



β Caryophyllene 2.372 mg/g




Limonene 1.099 mg/g


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: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states. Action limits for required tests are either state-specific, or the lower of any conflicting state regulations based upon the panel requested.

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: Josh Antunovich
Date: 12/14/2021


Approved by: Josh Wurzer, President
Date: 12/14/2021

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: 3.912 mg/unit

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

TOTAL CBD: 151.956 mg/unit

Total CBD (CBD+0.877*CBDA)

TOTAL CANNABINOIDS: 208.032 mg/unit

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

TOTAL CBG: 47.288 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 1.928 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 2.948 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 12/08/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	± 0.1284	2.680	0.2680
CBG	0.002 / 0.006	± 0.0519	0.834	0.0834
$\Delta 9$ THC	0.002 / 0.014	± 0.0049	0.069	0.0069
CBDV	0.002 / 0.012	± 0.0027	0.052	0.0052
CBC	0.003 / 0.010	± 0.0014	0.034	0.0034
$\Delta 8$ THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDA	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBN	0.001 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			3.669 mg/g	0.3669%

Unit Mass: 56.7 grams per Unit

$\Delta 9$ THC per Unit	3.912 mg/unit
Total THC per Unit	3.912 mg/unit
CBD per Unit	151.956 mg/unit
Total CBD per Unit	151.956 mg/unit
Sum of Cannabinoids per Unit	208.032 mg/unit
Total Cannabinoids per Unit	208.032 mg/unit

Terpenoid Analysis

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

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

TERPENOID TEST RESULTS - 12/08/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α Pinene	0.005 / 0.017	± 0.0241	2.805	0.2805
β Caryophyllene	0.004 / 0.012	± 0.0844	2.372	0.2372
Limonene	0.005 / 0.016	± 0.0157	1.099	0.1099
Geraniol	0.002 / 0.007	± 0.0173	0.393	0.0393
Myrcene	0.008 / 0.025	± 0.0041	0.319	0.0319
Sabinene	0.004 / 0.014	± 0.0036	0.296	0.0296
p-Cymene	0.005 / 0.016	± 0.0069	0.255	0.0255
α Humulene	0.009 / 0.029	± 0.0065	0.204	0.0204
β Pinene	0.004 / 0.014	± 0.0022	0.192	0.0192
α Phellandrene	0.006 / 0.020	± 0.0026	0.189	0.0189
Geranyl Acetate	0.004 / 0.014	± 0.0077	0.185	0.0185

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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

TERPENOID TEST RESULTS - 12/08/2021 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Camphene	0.005 / 0.015	±0.0015	0.134	0.0134
Caryophyllene Oxide	0.010 / 0.033	±0.0030	0.066	0.0066
Linalool	0.009 / 0.032	±0.0024	0.062	0.0062
3 Carene	0.005 / 0.018	±0.0009	0.061	0.0061
Valencene	0.009 / 0.030	±0.0021	0.031	0.0031
γ Terpinene	0.006 / 0.018	±0.0004	0.026	0.0026
α Terpinene	0.005 / 0.017	±0.0004	0.024	0.0024
Citronellol	0.003 / 0.010	±0.0007	0.015	0.0015
Ocimene	0.011 / 0.038	N/A	<LOQ	<LOQ
Terpinolene	0.008 / 0.026	N/A	<LOQ	<LOQ
Terpineol	0.016 / 0.055	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
Fenchol	0.010 / 0.034	N/A	ND	ND
(-)-Isopulegol	0.005 / 0.016	N/A	ND	ND
Camphor	0.006 / 0.019	N/A	ND	ND
Isoborneol	0.004 / 0.012	N/A	ND	ND
Borneol	0.005 / 0.016	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Nerol	0.003 / 0.011	N/A	ND	ND
R-(+)-Pulegone	0.003 / 0.011	N/A	ND	ND
α Cedrene	0.005 / 0.016	N/A	ND	ND
trans-β-Farnesene	0.008 / 0.025	N/A	ND	ND
Nerolidol	0.009 / 0.028	N/A	ND	ND
Guaiol	0.009 / 0.030	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
α Bisabolol	0.008 / 0.026	N/A	ND	ND
TOTAL TERPENOIDS			8.728 mg/g	0.8728%

1 α Pinene

One of two isomers of the monoterpene Pinene, the most abundant terpene in the natural world. It is responsible for the distinct aroma of many coniferous trees, particularly pines, from which it derives its name. It is a primary constituent of turpentine. Found in pines, rose gun, parsley, frankincense, guava, juniper, rosemary, nutmeg, blue gum, valerian...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 CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

3 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.

NOTES

COA amended, update to order detail information.

