

SAMPLE NAME: CBD Stick Tincture

Infused, Liquid Edible Containing Alcohol

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR

Business Name: Sisters Of The Valley

License Number:

Address:
Merced CA 95348



SAMPLE DETAIL

Batch Number: Hazel Moon Sept 2020

Sample ID: 200917Y006

Date Collected: 09/17/2020

Date Received: 09/17/2020

Batch Size:

Sample Size:

Unit Mass: 26 Grams per Unit

Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 0.0 mg/unit

Total CBD: 165.464 mg/unit

Sum of Cannabinoids: 190.892 mg/unit

Total Cannabinoids: 177.788 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 = $(\Delta 9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta 8\text{THC} + \text{CBL} + \text{CBN}$

Moisture: NT

Density: 0.8785 g/mL

Viscosity: NT

SAFETY ANALYSIS - SUMMARY

$\Delta 9\text{THC}$ per Unit: ✔ PASS

Foreign Material: ✔ PASS

Water Activity: NT

Vitamin E Acetate: NT

Pesticides: ✔ PASS

Mycotoxins: NT

Residual Solvents: ✔ PASS

Heavy Metals: ✔ PASS

Microbial Impurities (PCR): NT

Microbial Impurities (Plating): 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: Josh Antunovich
 Date: 09/25/2020


 Approved by: Josh Wurzer, President
 Date: 09/25/2020



Cannabinoïd Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP - (1157) Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 0.0 mg/unit

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

TOTAL CBD: 165.464 mg/unit

Total CBD ($\text{CBD} + 0.877 * \text{CBDa}$)

TOTAL CANNABINOIDS: 177.788 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCv) + (Total CBC) + (Total CBDV) + $\Delta 8\text{THC}$ + CBL + CBN

TOTAL CBG: 4.030 mg/unit

Total CBG ($\text{CBG} + 0.877 * \text{CBGa}$)

TOTAL THCV: ND

Total THCV ($\text{THCV} + 0.877 * \text{THCVa}$)

TOTAL CBC: 7.722 mg/unit

Total CBC ($\text{CBC} + 0.877 * \text{CBCa}$)

TOTAL CBDV: 0.572 mg/unit

Total CBDV ($\text{CBDV} + 0.877 * \text{CBDVa}$)

CANNABINOID TEST RESULTS - 09/21/2020

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|----------------------------|----------------|--------------------------------|-------------------|----------------|
| CBD | 0.004 / 0.011 | ± 0.2609 | 5.447 | 0.5447 |
| CBDa | 0.001 / 0.003 | ± 0.0382 | 1.046 | 0.1046 |
| $\Delta 9\text{THC}$ | 0.002 / 0.005 | ± 0.0197 | 0.279 | 0.0279 |
| CBCa | 0.001 / 0.004 | ± 0.0117 | 0.239 | 0.0239 |
| CBG | 0.002 / 0.005 | ± 0.0077 | 0.124 | 0.0124 |
| CBC | 0.003 / 0.010 | ± 0.0036 | 0.087 | 0.0087 |
| THCa | 0.001 / 0.002 | ± 0.0014 | 0.063 | 0.0063 |
| CBGa | 0.002 / 0.006 | ± 0.0010 | 0.035 | 0.0035 |
| CBDV | 0.002 / 0.007 | ± 0.0012 | 0.022 | 0.0022 |
| CBN | 0.001 / 0.004 | N/A | <LOQ | <LOQ |
| $\Delta 8\text{THC}$ | 0.01 / 0.02 | N/A | ND | ND |
| THCV | 0.002 / 0.008 | N/A | ND | ND |
| THCVa | 0.002 / 0.005 | N/A | ND | ND |
| CBDVa | 0.001 / 0.003 | N/A | ND | ND |
| CBL | 0.003 / 0.008 | N/A | ND | ND |
| SUM OF CANNABINOIDS | | | 7.342 mg/g | 0.7342% |

Unit Mass: 26 Grams per Unit

| | | | |
|-------------------------------|------------------------|-----------------|------|
| $\Delta 9\text{THC}$ per Unit | 1100 per-package limit | 7.254 mg/unit | PASS |
| Total THC per Unit | | 0.0 mg/unit | |
| CBD per Unit | | 141.622 mg/unit | |
| Total CBD per Unit | | 165.464 mg/unit | |
| Sum of Cannabinoids per Unit | | 190.892 mg/unit | |
| Total Cannabinoids per Unit | | 177.788 mg/unit | |

MOISTURE TEST RESULT

Not Tested

DENSITY TEST RESULT

0.8785 g/mL

Tested 09/21/2020

Method: QSP - (7870) Sample Preparation

VISCOSITY TEST RESULT

Not Tested



 **Pesticide Analysis**

CATEGORY 1 PESTICIDE TEST RESULTS - 09/20/2020  **PASS**

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP - (1212) Analysis of Pesticides and Mycotoxins by LC-MS or QSP - (1213) Analysis of Pesticides by GC-MS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|-------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Aldicarb | 0.03 / 0.09 | ≥ LOD | N/A | ND | PASS |
| Carbofuran | 0.01 / 0.04 | ≥ LOD | N/A | ND | PASS |
| Chlordane* | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Chlorfenapyr* | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| Chlorpyrifos | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Coumaphos | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Daminozide | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| DDVP (Dichlorvos) | 0.02 / 0.07 | ≥ LOD | N/A | ND | PASS |
| Dimethoate | 0.02 / 0.07 | ≥ LOD | N/A | ND | PASS |
| Ethoprop(hos) | 0.03 / 0.08 | ≥ LOD | N/A | ND | PASS |
| Etofenprox | 0.02 / 0.05 | ≥ LOD | N/A | ND | PASS |
| Fenoxycarb | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Fipronil | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Imazalil | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Methiocarb | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Methyl parathion | 0.03 / 0.10 | ≥ LOD | N/A | ND | PASS |
| Mevinphos | 0.03 / 0.09 | ≥ LOD | N/A | ND | PASS |
| Paclobutrazol | 0.02 / 0.05 | ≥ LOD | N/A | ND | PASS |
| Propoxur | 0.02 / 0.06 | ≥ LOD | N/A | ND | PASS |
| Spiroxamine | 0.02 / 0.05 | ≥ LOD | N/A | ND | PASS |
| Thiacloprid | 0.03 / 0.07 | ≥ LOD | N/A | ND | PASS |


CATEGORY 2 PESTICIDE TEST RESULTS - 09/20/2020  **PASS**

| | | | | | |
|---------------------|-------------|-----|-----|----|------|
| Abamectin | 0.03 / 0.10 | 0.3 | N/A | ND | PASS |
| Acephate | 0.01 / 0.04 | 5 | N/A | ND | PASS |
| Acequinocyl | 0.02 / 0.05 | 4 | N/A | ND | PASS |
| Acetamiprid | 0.02 / 0.05 | 5 | N/A | ND | PASS |
| Azoxystrobin | 0.01 / 0.04 | 40 | N/A | ND | PASS |
| Bifenazate | 0.01 / 0.02 | 5 | N/A | ND | PASS |
| Bifenthrin | 0.01 / 0.02 | 0.5 | N/A | ND | PASS |
| Boscalid | 0.02 / 0.06 | 10 | N/A | ND | PASS |
| Captan | 0.2 / 0.5 | 5 | N/A | ND | PASS |
| Carbaryl | 0.01 / 0.02 | 0.5 | N/A | ND | PASS |
| Chlorantraniliprole | 0.01 / 0.03 | 40 | N/A | ND | PASS |

Continued on next page



 **Pesticide Analysis** *Continued*

CATEGORY 2 PESTICIDE TEST RESULTS - 09/20/2020 *continued*  **PASS**

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated.

Method: QSP - (1212) Analysis of Pesticides and Mycotoxins by LC-MS or QSP - (1213) Analysis of Pesticides by GC-MS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Clofentezine | 0.02 / 0.06 | 0.5 | N/A | ND | PASS |
| Cyfluthrin | 0.1 / 0.4 | 1 | N/A | ND | PASS |
| Cypermethrin | 0.1 / 0.3 | 1 | N/A | ND | PASS |
| Diazinon | 0.01 / 0.04 | 0.2 | N/A | ND | PASS |
| Dimethomorph | 0.01 / 0.03 | 20 | N/A | ND | PASS |
| Etoxazole | 0.010 / 0.028 | 1.5 | N/A | ND | PASS |
| Fenhexamid | 0.02 / 0.1 | 10 | N/A | ND | PASS |
| Fenpyroximate | 0.03 / 0.08 | 2 | N/A | ND | PASS |
| Flonicamid | 0.01 / 0.04 | 2 | N/A | ND | PASS |
| Fludioxonil | 0.03 / 0.08 | 30 | N/A | ND | PASS |
| Hexythiazox | 0.01 / 0.04 | 2 | N/A | ND | PASS |
| Imidacloprid | 0.01 / 0.04 | 3 | N/A | ND | PASS |
| Kresoxim-methyl | 0.02 / 0.07 | 1 | N/A | ND | PASS |
| Malathion | 0.02 / 0.05 | 5 | N/A | ND | PASS |
| Metalaxyl | 0.02 / 0.06 | 15 | N/A | ND | PASS |
| Methomyl | 0.03 / 0.1 | 0.1 | N/A | ND | PASS |
| Myclobutanil | 0.03 / 0.1 | 9 | N/A | ND | PASS |
| Naled | 0.03 / 0.1 | 0.5 | N/A | ND | PASS |
| Oxamyl | 0.02 / 0.06 | 0.2 | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.03 / 0.09 | 0.2 | N/A | ND | PASS |
| Permethrin | 0.03 / 0.09 | 20 | N/A | ND | PASS |
| Phosmet | 0.03 / 0.10 | 0.2 | N/A | ND | PASS |
| Piperonylbutoxide | 0.003 / 0.009 | 8 | N/A | ND | PASS |
| Prallethrin | 0.03 / 0.08 | 0.4 | N/A | ND | PASS |
| Propiconazole | 0.01 / 0.03 | 20 | N/A | ND | PASS |
| Pyrethrins | 0.03 / 0.08 | 1 | N/A | ND | PASS |
| Pyridaben | 0.006 / 0.019 | 3 | N/A | ND | PASS |
| Spinetoram | 0.02 / 0.07 | 3 | N/A | ND | PASS |
| Spinosad | 0.02 / 0.06 | 3 | N/A | ND | PASS |
| Spiromesifen | 0.02 / 0.05 | 12 | N/A | ND | PASS |
| Spirotetramat | 0.01 / 0.02 | 13 | N/A | ND | PASS |
| Tebuconazole | 0.02 / 0.07 | 2 | N/A | ND | PASS |
| Thiamethoxam | 0.03 / 0.08 | 4.5 | N/A | ND | PASS |
| Trifloxystrobin | 0.01 / 0.03 | 30 | N/A | ND | PASS |




 **Residual Solvents Analysis**

CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 09/19/2020  **PASS**

CATEGORY 1 AND 2 RESIDUAL SOLVENTS
 Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).


Method: QSP - (1204) Analysis of Residual Solvents by GC-MS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------|----------------|---------------------|--------------------------------|---------------|--------|
| 1,2-Dichloroethane | 0.05 / 0.1 | 1 | N/A | ND | PASS |
| Benzene | 0.03 / 0.09 | 1 | N/A | ND | PASS |
| Chloroform | 0.1 / 0.2 | 1 | N/A | ND | PASS |
| Ethylene Oxide | 0.1 / 0.4 | 1 | N/A | ND | PASS |
| Methylene chloride | 0.3 / 0.9 | 1 | N/A | ND | PASS |
| Trichloroethylene | 0.1 / 0.3 | 1 | N/A | ND | PASS |

CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 09/19/2020  **PASS**

| | | | | | |
|-------------------|----------|------|---------|-------|------|
| Acetone | 20 / 50 | 5000 | N/A | ND | PASS |
| Acetonitrile | 2 / 7 | 410 | N/A | ND | PASS |
| Butane | 10 / 50 | 5000 | N/A | ND | PASS |
| Ethanol | 20 / 50 | | ±>266.9 | >7023 | |
| Ethyl acetate | 20 / 60 | 5000 | N/A | ND | PASS |
| Ethyl ether | 20 / 50 | 5000 | N/A | ND | PASS |
| Heptane | 20 / 60 | 5000 | N/A | ND | PASS |
| Hexane | 2 / 5 | 290 | N/A | ND | PASS |
| Isopropyl Alcohol | 10 / 40 | 5000 | N/A | ND | PASS |
| Methanol | 50 / 200 | 3000 | N/A | ND | PASS |
| Pentane | 20 / 50 | 5000 | N/A | ND | PASS |
| Propane | 10 / 20 | 5000 | N/A | ND | PASS |
| Toluene | 7 / 21 | 890 | N/A | ND | PASS |
| Total Xylenes | 50 / 160 | 2170 | N/A | ND | PASS |

 **Heavy Metals Analysis**

HEAVY METALS TEST RESULTS - 09/19/2020  **PASS**

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP - (1160) Analysis of Heavy Metals by ICP-MS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|----------|----------------|---------------------|--------------------------------|---------------|--------|
| Cadmium | 0.02 / 0.05 | 0.5 | N/A | ND | PASS |
| Lead | 0.04 / 0.1 | 0.5 | N/A | ND | PASS |
| Arsenic | 0.02 / 0.1 | 1.5 | N/A | ND | PASS |
| Mercury | 0.002 / 0.01 | 3 | N/A | ND | PASS |





Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP - (1226) Analysis of Foreign Material in Cannabis and Cannabis Products

FOREIGN MATERIAL TEST RESULTS - 09/18/2020 ✔ PASS

| COMPOUND | ACTION LIMIT | RESULT |
|---|-----------------|--------|
| Total Sample Area Covered by Sand, Soil, Cinders, or Dirt | >25% | PASS |
| Total Sample Area Covered by Mold | >25% | PASS |
| Total Sample Area Covered by an Imbedded Foreign Material | >25% | PASS |
| Insect Fragment Count | > 1 per 3 grams | PASS |
| Hair Count | > 1 per 3 grams | PASS |
| Mammalian Excreta Count | > 1 per 3 grams | PASS |

NOTES

COA amended to update order detail information

