

**SAMPLE NAME:** cbdMD Tincture 30 mL Berry 750 mg

Infused, Hemp Infused

## CULTIVATOR / MANUFACTURER

**Business Name:**

**License Number:**

**Address:**

## DISTRIBUTOR / TESTED FOR

**Business Name:** cbdMD

**License Number:**

**Address:**

## SAMPLE DETAIL

**Batch Number:** 20131Q2

**Sample ID:** 220117N016

**Date Collected:** 01/17/2022

**Date Received:** 01/17/2022

**Batch Size:**

**Sample Size:** 1.0 units

**Unit Mass:** 30 milliliters per Unit

**Serving Size:** 1 milliliters per Serving



Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY

**Total THC:** Not Detected

**Total CBD:** 850.650 mg/unit

**Sum of Cannabinoids:** 863.100 mg/unit

**Total Cannabinoids:** 863.100 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 =  $\Delta^9\text{THC} + (\text{THCa} \times 0.877)$

Total CBD =  $\text{CBD} + (\text{CBDA} \times 0.877)$

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 =  $(\Delta^9\text{THC} + 0.877 \times \text{THCa}) + (\text{CBD} + 0.877 \times \text{CBDA}) + (\text{CBG} + 0.877 \times \text{CBGa}) + (\text{THCV} + 0.877 \times \text{THCVa}) + (\text{CBC} + 0.877 \times \text{CBCa}) + (\text{CBDV} + 0.877 \times \text{CBDVa}) + \Delta^8\text{THC} + \text{CBL} + \text{CBN}$

**Density:** 0.946 g/mL

## TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids:** 0.1108%



**Limonene** 0.762 mg/g



**α Bisabolol** 0.308 mg/g



**Linalool** 0.038 mg/g

## SAFETY ANALYSIS - SUMMARY

**Pesticides:** ✔ PASS

**Mycotoxins:** ✔ PASS

**Residual Solvents:** ✔ PASS

**Heavy Metals:** ✔ PASS

**Microbiology (PCR):** ✔ PASS

**Microbiology (Plating):** ✔ PASS

**Foreign Material:** ✔ PASS

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), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)



LQC verified by: Michael Pham  
Date: 01/22/2022



Approved by: Josh Wurzer, President  
Date: 01/22/2022

### 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: **Not Detected**

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

#### TOTAL CBD: **850.650 mg/unit**

Total CBD (CBD+0.877\*CBDA)

#### TOTAL CANNABINOIDS: **863.100 mg/unit**

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

#### TOTAL CBG: **7.170 mg/unit**

Total CBG (CBG+0.877\*CBGa)

#### TOTAL THCV: **ND**

Total THCV (THCV+0.877\*THCVa)

#### TOTAL CBC: **ND**

Total CBC (CBC+0.877\*CBCa)

#### TOTAL CBDV: **2.670 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 01/19/2022

| COMPOUND            | LOD/LOQ (mg/mL) | MEASUREMENT UNCERTAINTY (mg/mL) | RESULT (mg/mL) | RESULT (%) |
|---------------------|-----------------|---------------------------------|----------------|------------|
| CBD                 | 0.004 / 0.011   | $\pm 1.3582$                    | 28.355         | 2.9974     |
| CBG                 | 0.002 / 0.006   | $\pm 0.0149$                    | 0.239          | 0.0253     |
| CBDV                | 0.002 / 0.012   | $\pm 0.0047$                    | 0.089          | 0.0094     |
| CBN                 | 0.001 / 0.007   | $\pm 0.0032$                    | 0.087          | 0.0092     |
| $\Delta 9$ THC      | 0.002 / 0.014   | N/A                             | ND             | ND         |
| THCa                | 0.001 / 0.005   | N/A                             | ND             | ND         |
| $\Delta 8$ THC      | 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         |
| 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         |
| CBC                 | 0.003 / 0.010   | N/A                             | ND             | ND         |
| CBCa                | 0.001 / 0.015   | N/A                             | ND             | ND         |
| SUM OF CANNABINOIDS |                 |                                 | 28.770 mg/mL   | 3.0412%    |

### Unit Mass: 30 milliliters per Unit / Serving Size: 1 milliliters per Serving

|                                 |                   |
|---------------------------------|-------------------|
| $\Delta 9$ THC per Unit         | ND                |
| $\Delta 9$ THC per Serving      | ND                |
| Total THC per Unit              | ND                |
| Total THC per Serving           | ND                |
| CBD per Unit                    | 850.650 mg/unit   |
| CBD per Serving                 | 28.355 mg/serving |
| Total CBD per Unit              | 850.650 mg/unit   |
| Total CBD per Serving           | 28.355 mg/serving |
| Sum of Cannabinoids per Unit    | 863.100 mg/unit   |
| Sum of Cannabinoids per Serving | 28.770 mg/serving |
| Total Cannabinoids per Unit     | 863.100 mg/unit   |
| Total Cannabinoids per Serving  | 28.770 mg/serving |

### DENSITY TEST RESULT

0.946 g/mL

Tested 01/19/2022

**Method:** QSP 7870 - Sample Preparation





### Terpenoid Analysis

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

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

#### TERPENOID TEST RESULTS - 01/20/2022

| COMPOUND                | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g)     | RESULT (%)     |
|-------------------------|----------------|--------------------------------|-------------------|----------------|
| Limonene                | 0.005 / 0.016  | ±0.0109                        | 0.762             | 0.0762         |
| α Bisabolol             | 0.008 / 0.026  | ±0.0164                        | 0.308             | 0.0308         |
| Linalool                | 0.009 / 0.032  | ±0.0014                        | 0.038             | 0.0038         |
| p-Cymene                | 0.005 / 0.016  | N/A                            | <LOQ              | <LOQ           |
| α Cedrene               | 0.005 / 0.016  | N/A                            | <LOQ              | <LOQ           |
| α Pinene                | 0.005 / 0.017  | N/A                            | ND                | ND             |
| Camphene                | 0.005 / 0.015  | N/A                            | ND                | ND             |
| Sabinene                | 0.004 / 0.014  | N/A                            | ND                | ND             |
| β Pinene                | 0.004 / 0.014  | N/A                            | ND                | ND             |
| Myrcene                 | 0.008 / 0.025  | N/A                            | ND                | ND             |
| α Phellandrene          | 0.006 / 0.020  | N/A                            | ND                | ND             |
| 3 Carene                | 0.005 / 0.018  | N/A                            | ND                | ND             |
| 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             |
| γ Terpinene             | 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             |
| Terpinolene             | 0.008 / 0.026  | 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             |
| Terpineol               | 0.016 / 0.055  | N/A                            | ND                | ND             |
| Nerol                   | 0.003 / 0.011  | N/A                            | ND                | ND             |
| Citronellol             | 0.003 / 0.010  | N/A                            | ND                | ND             |
| R-(+)-Pulegone          | 0.003 / 0.011  | N/A                            | ND                | ND             |
| Geraniol                | 0.002 / 0.007  | N/A                            | ND                | ND             |
| Geranyl Acetate         | 0.004 / 0.014  | N/A                            | ND                | ND             |
| β Caryophyllene         | 0.004 / 0.012  | N/A                            | ND                | ND             |
| trans-β-Farnesene       | 0.008 / 0.025  | N/A                            | ND                | ND             |
| α Humulene              | 0.009 / 0.029  | N/A                            | ND                | ND             |
| Valencene               | 0.009 / 0.030  | N/A                            | ND                | ND             |
| Nerolidol               | 0.009 / 0.028  | N/A                            | ND                | ND             |
| Caryophyllene Oxide     | 0.010 / 0.033  | N/A                            | ND                | ND             |
| Guaiol                  | 0.009 / 0.030  | N/A                            | ND                | ND             |
| Cedrol                  | 0.008 / 0.027  | N/A                            | ND                | ND             |
| <b>TOTAL TERPENOIDS</b> |                |                                | <b>1.108 mg/g</b> | <b>0.1108%</b> |

#### 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.

#### 2 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.

#### 3 Linalool

A monoterpene 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 basil, lavender, cinnamon, hops, mugwort, goldenrods...etc.





### Pesticide Analysis

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

Exclusions<sup>1</sup> see last page

Exclusions<sup>2</sup> see last page

### PESTICIDE TEST RESULTS - 01/20/2022 ✓ PASS

| COMPOUND            | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Abamectin           | 0.03 / 0.10    | 0.3                 | N/A                            | ND            | PASS   |
| Acephate            | 0.02 / 0.07    | 5                   | N/A                            | ND            | PASS   |
| Acequinocyl         | 0.02 / 0.07    | 4                   | N/A                            | ND            | PASS   |
| Acetamiprid         | 0.02 / 0.05    | 5                   | N/A                            | ND            | PASS   |
| Aldicarb            | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Azoxystrobin        | 0.02 / 0.07    | 40                  | N/A                            | ND            | PASS   |
| Bifenazate          | 0.01 / 0.04    | 5                   | N/A                            | ND            | PASS   |
| Bifenthrin          | 0.02 / 0.05    | 0.5                 | N/A                            | ND            | PASS   |
| Boscalid            | 0.03 / 0.09    | 10                  | N/A                            | ND            | PASS   |
| Captan              | 0.19 / 0.57    | 5                   | N/A                            | ND            | PASS   |
| Carbaryl            | 0.02 / 0.06    | 0.5                 | N/A                            | ND            | PASS   |
| Carbofuran          | 0.02 / 0.05    | ≥ LOD               | N/A                            | ND            | PASS   |
| Chlorantraniliprole | 0.04 / 0.12    | 40                  | 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   |
| Clofentezine        | 0.03 / 0.09    | 0.5                 | N/A                            | ND            | PASS   |
| Coumaphos           | 0.02 / 0.07    | ≥ LOD               | N/A                            | ND            | PASS   |
| Cyfluthrin          | 0.12 / 0.38    | 1                   | N/A                            | ND            | PASS   |
| Cypermethrin        | 0.11 / 0.32    | 1                   | N/A                            | ND            | PASS   |
| Daminozide          | 0.02 / 0.07    | ≥ LOD               | N/A                            | ND            | PASS   |
| DDVP (Dichlorvos)   | 0.03 / 0.09    | ≥ LOD               | N/A                            | ND            | PASS   |
| Diazinon            | 0.02 / 0.05    | 0.2                 | N/A                            | ND            | PASS   |
| Dimethoate          | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Dimethomorph        | 0.03 / 0.09    | 20                  | N/A                            | ND            | PASS   |
| Ethoprop(hos)       | 0.03 / 0.10    | ≥ LOD               | N/A                            | ND            | PASS   |
| Etofenprox          | 0.02 / 0.06    | ≥ LOD               | N/A                            | ND            | PASS   |
| Etoxazole           | 0.02 / 0.06    | 1.5                 | N/A                            | ND            | PASS   |
| Fenhexamid          | 0.03 / 0.09    | 10                  | N/A                            | ND            | PASS   |
| Fenoxycarb          | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Fenpyroximate       | 0.02 / 0.06    | 2                   | N/A                            | ND            | PASS   |
| Fipronil            | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Flonicamid          | 0.03 / 0.10    | 2                   | N/A                            | ND            | PASS   |
| Fludioxonil         | 0.03 / 0.10    | 30                  | N/A                            | ND            | PASS   |
| Hexythiazox         | 0.02 / 0.07    | 2                   | N/A                            | ND            | PASS   |
| Imazalil            | 0.02 / 0.06    | ≥ LOD               | N/A                            | ND            | PASS   |
| Imidacloprid        | 0.04 / 0.11    | 3                   | N/A                            | ND            | PASS   |
| Kresoxim-methyl     | 0.02 / 0.07    | 1                   | N/A                            | ND            | PASS   |
| Malathion           | 0.03 / 0.09    | 5                   | N/A                            | ND            | PASS   |
| Metalaxyl           | 0.02 / 0.07    | 15                  | N/A                            | ND            | PASS   |
| Methiocarb          | 0.02 / 0.07    | ≥ LOD               | N/A                            | ND            | PASS   |

Continued on next page





### Pesticide Analysis *Continued*

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

### PESTICIDE TEST RESULTS - 01/20/2022 *continued* ✔ PASS

| COMPOUND                 | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Methomyl                 | 0.03 / 0.10    | 0.1                 | 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   |
| Myclobutanil             | 0.03 / 0.09    | 9                   | N/A                            | ND            | PASS   |
| Naled                    | 0.02 / 0.07    | 0.5                 | N/A                            | ND            | PASS   |
| Oxamyl                   | 0.04 / 0.11    | 0.2                 | N/A                            | ND            | PASS   |
| Paclobutrazol            | 0.02 / 0.05    | ≥ LOD               | N/A                            | ND            | PASS   |
| Pentachloronitrobenzene* | 0.03 / 0.09    | 0.2                 | N/A                            | ND            | PASS   |
| Permethrin               | 0.04 / 0.12    | 20                  | N/A                            | ND            | PASS   |
| Phosmet                  | 0.03 / 0.10    | 0.2                 | N/A                            | ND            | PASS   |
| Piperonylbutoxide        | 0.02 / 0.07    | 8                   | N/A                            | ND            | PASS   |
| Prallethrin              | 0.03 / 0.08    | 0.4                 | N/A                            | ND            | PASS   |
| Propiconazole            | 0.02 / 0.07    | 20                  | N/A                            | ND            | PASS   |
| Propoxur                 | 0.03 / 0.09    | ≥ LOD               | N/A                            | ND            | PASS   |
| Pyrethrins               | 0.04 / 0.12    | 1                   | N/A                            | ND            | PASS   |
| Pyridaben                | 0.02 / 0.07    | 3                   | N/A                            | ND            | PASS   |
| Spinetoram               | 0.02 / 0.07    | 3                   | N/A                            | ND            | PASS   |
| Spinosad                 | 0.02 / 0.07    | 3                   | N/A                            | ND            | PASS   |
| Spiromesifen             | 0.02 / 0.05    | 12                  | N/A                            | ND            | PASS   |
| Spirotetramat            | 0.02 / 0.06    | 13                  | N/A                            | ND            | PASS   |
| Spiroxamine              | 0.03 / 0.08    | ≥ LOD               | N/A                            | ND            | PASS   |
| Tebuconazole             | 0.02 / 0.07    | 2                   | N/A                            | ND            | PASS   |
| Thiacloprid              | 0.03 / 0.10    | ≥ LOD               | N/A                            | ND            | PASS   |
| Thiamethoxam             | 0.03 / 0.10    | 4.5                 | N/A                            | ND            | PASS   |
| Trifloxystrobin          | 0.03 / 0.08    | 30                  | N/A                            | ND            | PASS   |



### Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

*Exclusions<sup>3</sup> see last page*

### MYCOTOXIN TEST RESULTS - 01/19/2022 ✔ PASS

| COMPOUND        | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|-----------------|-----------------|----------------------|---------------------------------|----------------|--------|
| Aflatoxin B1    | 2.0 / 6.0       |                      | N/A                             | ND             |        |
| Aflatoxin B2    | 1.8 / 5.6       |                      | N/A                             | ND             |        |
| Aflatoxin G1    | 1.0 / 3.1       |                      | N/A                             | ND             |        |
| Aflatoxin G2    | 1.2 / 3.5       |                      | N/A                             | ND             |        |
| Total Aflatoxin |                 | 20                   |                                 | ND             | PASS   |
| Ochratoxin A    | 6.3 / 19.2      | 20                   | N/A                             | ND             | PASS   |





### Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

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

Exclusions<sup>4</sup> see last page

### RESIDUAL SOLVENTS TEST RESULTS - 01/20/2022 ✓ PASS

| COMPOUND           | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|--------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Propane            | 10 / 20        | 5000                | N/A                            | ND            | PASS   |
| Butane             | 10 / 50        | 5000                | N/A                            | ND            | PASS   |
| Pentane            | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| Hexane             | 2 / 5          | 290                 | N/A                            | ND            | PASS   |
| Heptane            | 20 / 60        | 5000                | N/A                            | ND            | PASS   |
| Benzene            | 0.03 / 0.09    | 1                   | N/A                            | ND            | PASS   |
| Toluene            | 7 / 21         | 890                 | N/A                            | ND            | PASS   |
| Total Xylenes      | 50 / 160       | 2170                | N/A                            | ND            | PASS   |
| Methanol           | 50 / 200       | 3000                | N/A                            | ND            | PASS   |
| Ethanol            | 20 / 50        | 5000                | N/A                            | <LOQ          | PASS   |
| Isopropyl Alcohol  | 10 / 40        | 5000                | N/A                            | ND            | PASS   |
| Acetone            | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| Ethyl ether        | 20 / 50        | 5000                | N/A                            | ND            | PASS   |
| Ethylene Oxide     | 0.3 / 0.8      | 1                   | N/A                            | ND            | PASS   |
| Ethyl acetate      | 20 / 60        | 5000                | N/A                            | ND            | PASS   |
| Chloroform         | 0.1 / 0.2      | 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   |
| 1,2-Dichloroethane | 0.05 / 0.1     | 1                   | N/A                            | ND            | PASS   |
| Acetonitrile       | 2 / 7          | 410                 | N/A                            | ND            | PASS   |



### Heavy Metals Analysis

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

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

### HEAVY METALS TEST RESULTS - 01/19/2022 ✓ PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|----------|----------------|---------------------|--------------------------------|---------------|--------|
| Arsenic  | 0.02 / 0.1     | 0.42                | N/A                            | ND            | PASS   |
| Cadmium  | 0.02 / 0.05    | 0.27                | N/A                            | ND            | PASS   |
| Lead     | 0.04 / 0.1     | 0.5                 | N/A                            | ND            | PASS   |
| Mercury  | 0.002 / 0.01   | 0.4                 | N/A                            | ND            | PASS   |



### Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

### MICROBIOLOGY TEST RESULTS (PCR) - 01/22/2022 ✓ PASS

| COMPOUND                                      | ACTION LIMIT       | RESULT | RESULT |
|---|--------------------|--------|--------|
| Shiga toxin-producing <i>Escherichia coli</i> | Not Detected in 1g | ND     | PASS   |
| <i>Salmonella</i> spp.                        | Not Detected in 1g | ND     | PASS   |
| <i>Listeria monocytogenes</i>                 | Not Detected in 1g | ND     | PASS   |





## Microbiology Analysis *Continued*

### PCR AND PLATING

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

## MICROBIOLOGY TEST RESULTS (PLATING) - 01/22/2022 ✓ PASS

| COMPOUND               | ACTION LIMIT (cfu/g) | RESULT (cfu/g) | RESULT |
|------------------------|----------------------|----------------|--------|
| Total Aerobic Bacteria | 100                  | ND             | PASS   |
| Total Yeast and Mold   | 10                   | 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 - 01/18/2022 ✓ 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

- Exclusions: QSP 1212 - Sample Certification: California Code of Regulation Title 4 Division 19
- Exclusions: QSP 1213 - Sample Certification: California Code of Regulation Title 4 Division 19
- Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19
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