

## Hemp Quality Assurance Testing **CERTIFICATE OF ANALYSIS**

DATE ISSUED 03/29/2021

## SAMPLE NAME: cbdMD Massage Oil 7.8 oz 400 mg

Infused, Non-Inhalable

## **CULTIVATOR / MANUFACTURER**

**Business Name:** License Number: Address:

## **DISTRIBUTOR / TESTED FOR** Business Name: cbdMD

License Number: Address:

### SAMPLE DETAIL

Batch Number: 21087 Sample ID: 210325R015

Date Collected: 03/25/2021 Date Received: 03/25/2021 Batch Size: Sample Size: 1.0 units Unit Mass: 231 milliliters per Unit Serving Size: 1 milliliters per Serving



Scan QR code to verify authenticity of results.

**39 TESTED, TOP 3 HIGHLIGHTED** 

### **CANNABINOID ANALYSIS - SUMMARY**

**Total THC: Not Detected** Total CBD: 447.909 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 =  $\Delta$ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids =  $\Delta$ 9THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 447.909 mg/unit 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) + ∆8THC + CBL + CBN

Pesticides: **PASS** 

Mycotoxins: **PASS** 

Residual Solvents: **PASS** 

Moisture: NT

Density: 0.9124 g/mL

Viscosity: NT

#### **TERPENOID ANALYSIS - SUMMARY**

Total Cannabinoids: 447.909 mg/unit

Total Terpenoids: ND

#### SAFETY ANALYSIS - SUMMARY

#### ∆9THC per Unit: ⊘PASS

Foreign Material: NT

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

Heavy Metals: **PASS** 

Microbial Impurities (PCR): PASS

Microbial Impurities (Plating): ND

: Josh Wurzer, President

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## sc abs™

## **Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS**

CBDMD MASSAGE OIL 7.8 OZ 400 MG | DATE ISSUED 03/29/2021



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 (∆9THC+0.877\*THCa)

### TOTAL CBD: 447.909 mg/unit

Total CBD (CBD+0.877\*CBDa)

### TOTAL CANNABINOIDS: 447.909 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

## TOTAL CBG: ND

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: <LOQ

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 03/26/2021

| COMPOUND      | LOD/LOQ<br>(mg/mL) | MEASUREMENT<br>UNCERTAINTY (mg/mL) | RESULT<br>(mg/mL)                               | RESULT<br>(%)       |
|---------------|--------------------|------------------------------------|---|---------------------|
| CBD           | 0.004/0.011        | ±0.0929                            | 1.939   | 0.2125              |
| CBDV          | 0.002/0.012        | N/A                                | <loq< th=""><th><loq< th=""></loq<></th></loq<> | <loq< th=""></loq<> |
| <b>Δ9THC</b>  | 0.002/0.014        | N/A                                | ND  | ND                  |
| THCa          | 0.001/0.005        | N/A                                | ND  | ND                  |
| 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                  |
| CBDa          | 0.001/0.026        | N/A                                | ND  | ND                  |
| CBDVa         | 0.001/0.018        | N/A                                | ND  | ND                  |
| CBG           | 0.002/0.006        | 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                  |
| CBC           | 0.003/0.010        | N/A                                | ND  | ND                  |
| CBCa          | 0.001/0.015        | N/A                                | ND  | ND                  |
| SUM OF CANNAE | BINOIDS            |                                    | 1.939 mg/mL                                     | 0.2125%             |

#### Unit Mass: 231 milliliters per Unit / Serving Size: 1 milliliters per Serving

| Δ9THC per Unit                  | 1120 per-package limit          | ND               | PASS             |  |  |
|---------------------------------|---------------------------------|------------------|------------------|--|--|
| Δ9THC per Serving               |                                 | ND               |                  |  |  |
| Total THC per Unit              |                                 | ND               |                  |  |  |
| Total THC per Serving           |                                 | ND               |                  |  |  |
| CBD per Unit                    |                                 | 447.909 mg/unit  |                  |  |  |
| CBD per Serving                 |                                 | 1.939 mg/serving |                  |  |  |
| Total CBD per Unit              |                                 | 447.909 mg/unit  |                  |  |  |
| Total CBD per Serving           |                                 | 1.939 mg/serving |                  |  |  |
| Sum of Cannabinoids per Unit    |                                 | 447.909 mg/unit  |                  |  |  |
| Sum of Cannabinoids per Serving | ium of Cannabinoids per Serving |                  | 1.939 mg/serving |  |  |
| Total Cannabinoids per Unit     | vids per Unit                   |                  | 447.909 mg/unit  |  |  |
| Total Cannabinoids per Serving  |                                 | 1.939 mg/serving |                  |  |  |

#### MOISTURE TEST RESULT

DENSITY TEST RESULT

### VISCOSITY TEST RESULT

Not Tested

0.9124 g/mL

Tested 03/26/2021

Method: QSP 7870 - Sample Preparation

Not Tested



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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD MASSAGE OIL 7.8 OZ 400 MG | DATE ISSUED 03/29/2021

## 🖉 Terpenoid Analysis

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

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

## TERPENOID TEST RESULTS - 03/27/2021

| COMPOUND              | LOD/LOQ<br>(mg/g) | MEASUREMENT<br>UNCERTAINTY (mg/g) | RESULT<br>(mg/g) | RESULT<br>(%) |
|-----------------------|-------------------|-----------------------------------|------------------|---------------|
| $\alpha$ 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            |
| $\beta$ Pinene        | 0.004/0.014       | N/A                               | ND               | ND            |
| Myrcene               | 0.008/0.025       | N/A                               | ND               | ND            |
| $\alpha$ Phellandrene | 0.006 / 0.020     | N/A                               | ND               | ND            |
| 3 Carene              | 0.005/0.018       | N/A                               | ND               | ND            |
| $\alpha$ Terpinene    | 0.005/0.017       | N/A                               | ND               | ND            |
| p-Cymene              | 0.005/0.016       | N/A                               | ND               | ND            |
| Limonene              | 0.005/0.016       | N/A                               | ND               | ND            |
| Eucalyptol            | 0.006 / 0.018     | N/A                               | ND               | ND            |
| Ocimene               | 0.011/0.038       | N/A                               | ND               | ND            |
| γTerpinene            | 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            |
| Linalool              | 0.009/0.032       | 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            |
| α Cedrene             | 0.005 / 0.016     | 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            |
| α Bisabolol           | 0.008 / 0.026     | N/A                               | ND               | ND            |
| TOTAL TERPENOIDS      |                   |                                   | ND               | ND            |



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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD MASSAGE OIL 7.8 OZ 400 MG | DATE ISSUED 03/29/2021

## Pesticide Analysis

### **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

## CATEGORY 1 PESTICIDE TEST RESULTS - 03/27/2021 OPASS

| COMPOUND          | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(µg/g) | RESULT |
|-------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Aldicarb          | 0.03/0.08         | ≥LOD                   | N/A                               | ND               | PASS   |
| Carbofuran        | 0.02/0.05         | ≥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         | 0.02/0.07         | ≥LOD                   | 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   |
| Dimethoate        | 0.03/0.08         | ≥LOD                   | 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   |
| Fenoxycarb        | 0.03/0.08         | ≥LOD                   | N/A                               | ND               | PASS   |
| Fipronil          | 0.03/0.08         | ≥LOD                   | N/A                               | ND               | PASS   |
| Imazalil          | 0.02/0.06         | ≥LOD                   | N/A                               | ND               | PASS   |
| Methiocarb        | 0.02/0.07         | ≥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          | 0.03/0.09         | ≥LOD                   | N/A                               | ND               | PASS   |
| Spiroxamine       | 0.03/0.08         | ≥LOD                   | N/A                               | ND               | PASS   |
| Thiacloprid       | 0.03/0.10         | ≥LOD                   | N/A                               | ND               | PASS   |
|                   |                   |                        |                                   |                  |        |

### CATEGORY 2 PESTICIDE TEST RESULTS - 03/27/2021 OPASS

| 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 |
| 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 |
| Chlorantraniliprole | 0.04/0.12   | 40  | N/A | ND | PASS |

Continued on next page

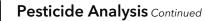


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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD MASSAGE OIL 7.8 OZ 400 MG | DATE ISSUED 03/29/2021





## **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

## CATEGORY 2 PESTICIDE TEST RESULTS - 03/27/2021 continued

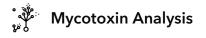
| COMPOUND                 | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(µg/g) | RESULT |
|--------------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Clofentezine             | 0.03/0.09         | 0.5                    | N/A                               | ND               | PASS   |
| Cyfluthrin               | 0.12/0.38         | 1                      | N/A                               | ND               | PASS   |
| Cypermethrin             | 0.11/0.32         | 1                      | N/A                               | ND               | PASS   |
| Diazinon                 | 0.02/0.05         | 0.2                    | N/A                               | ND               | PASS   |
| Dimethomorph             | 0.03/0.09         | 20                     | 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   |
| Fenpyroximate            | 0.02/0.06         | 2                      | 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   |
| 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   |
| Methomyl                 | 0.03/0.10         | 0.1                    | 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   |
| 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   |
| 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   |
| Tebuconazole             | 0.02/0.07         | 2                      | 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   |



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

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

## ि Residual Solvents Analysis

**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

## MYCOTOXIN TEST RESULTS - 03/27/2021 🔗 PASS

| COMPOUND        | LOD/LOQ<br>(µg/kg) | ACTION LIMIT<br>(µg/kg) | MEASUREMENT<br>UNCERTAINTY (μg/kg) | RESULT<br>(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   |

## CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 03/27/2021 O PASS

| COMPOUND           | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(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     | 0.3/0.8           | 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 - 03/27/2021 OPASS

| 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    | 5000 | N/A | ND | PASS |
| 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 |
|                   |          |      |     |    |      |



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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD MASSAGE OIL 7.8 OZ 400 MG | DATE ISSUED 03/29/2021



## Heavy Metals Analysis

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

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



## Microbial Impurities Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial impurities.

Method: QSP 1221 - Analysis of Microbial Impurities

Analysis conducted by 3M<sup>™</sup> Petrifilm<sup>™</sup> and plate counts of microbial impurities.

Method: QSP 6794 - Plating with 3M<sup>™</sup> Petrifilm<sup>™</sup>

## HEAVY METALS TEST RESULTS - 03/29/2021 🔗 PASS

| COMPOUND | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(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   |

## MICROBIAL IMPURITIES TEST RESULTS (PCR) - 03/29/2021 OPASS

| COMPOUND                               | ACTION LIMIT | RESULT | RESULT |
|--|--------------|--------|--------|
| Shiga toxin-producing Escherichia coli | Detect       | ND     | PASS   |
| Salmonella spp.                        | Detect       | ND     | PASS   |
| Listeria monocytogenes                 |              | ND     |        |

### MICROBIAL IMPURITIES TEST RESULTS (PLATING) - 03/29/2021 ND

| COMPOUND               | RESULT<br>(cfu/g) |
|------------------------|-------------------|
| Total Aerobic Bacteria | ND                |
| Total Yeast and Mold   | ND                |

