

DATE ISSUED 04/08/2022

### SAMPLE NAME: cbdMD 300mg Berry Tincture 30mL Infused, Hemp Infused **CULTIVATOR / MANUFACTURER DISTRIBUTOR / TESTED FOR Business Name:** Business Name: cbdMD License Number: License Number: Address: Address: SAMPLE DETAIL Batch Number: 20891Q1 Date Collected: 04/04/2022 Sample ID: 220404N047 Date Received: 04/04/2022 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/CBD is calculated using the following formulas to take into **Total THC: Not Detected** Density: 0.9448 g/mL account the loss of a carboxyl group during the decarboxylation step: Total THC = $\Delta^9$ -THC + (THCa (0.877)) Total CBD: 342.630 mg/unit Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = $\Delta^9$ -THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 350.550 mg/unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + $\Delta^{8}$ -THC + CBL + CBN Total Cannabinoids = $(\Delta^9$ -THC+0.877\*THCa) + (CBD+0.877\*CBDa) + (CBG+0.877\*CBGa) + (THCV+0.877\*THCVa) + (CBC+0.877\*CBCa) + Total Cannabinoids: 350.550 mg/unit $(CBDV+0.877*CBDVa) + \Delta^{8}-THC + CBL + CBN$ **TERPENOID ANALYSIS - SUMMARY 39 TESTED, TOP 3 HIGHLIGHTED** Total Terpenoids: 0.0853% Myrcene <LOQ</p> Limonene 0.816 mg/g 🔵 Linalool 0.037 mg/g SAFETY ANALYSIS - SUMMARY Pesticides: **PASS** Mycotoxins: **PASS** Residual Solvents: PASS Heavy Metals: **OPASS** Microbiology (PCR): OPASS Microbiology (Plating): PASS Foreign Material: **OPASS** For quality assurance purposes. Not a Regulatory 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 except Alaska. Action limits for required tests are the lower of any conflicting state regulations.

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)

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oved by: Josh Wurzer, President App te: 04/08/2022

LQC verified by: Michael Pham Date: 04/08/2022

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# 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: 342.630 mg/unit

Total CBD (CBD+0.877\*CBDa)

### TOTAL CANNABINOIDS: 350.550 mg/unit

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

### TOTAL CBG: 4.950 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: 0.960 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 04/07/2022

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±0.4260	11.421	1.2088
CBG	0.002/0.006	±0.0080	0.165	0.0175
CBN	0.001/0.007	±0.0019	0.067	0.0071
CBDV	0.002/0.012	±0.0013	0.032	0.0034
∆ <sup>9</sup> -THC	0.002/0.014	N/A	ND	ND
∆ <sup>8</sup> -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
СВС	0.003/0.010	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CANNA	BINOIDS		11.685 mg/mL	1.2368%

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

$\Delta^{9}$ -THC per Unit	TM	ND
$\Delta^9$ -THC per Serving		ND
Total THC per Unit		ND
Total THC per Serving		ND
CBD per Unit		342.630 mg/unit
CBD per Serving		11.421 mg/serving
Total CBD per Unit		342.630 mg/unit
Total CBD per Serving		11.421 mg/serving
Sum of Cannabinoids per Unit		350.550 mg/unit
Sum of Cannabinoids per Serving		11.685 mg/serving
Total Cannabinoids per Unit		350.550 mg/unit
Total Cannabinoids per Serving		11.685 mg/serving

### DENSITY TEST RESULT

0.9448 g/mL

Tested 04/07/2022

Method: QSP 7870 - Sample Preparation





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## 🖉 Terpenoid Analysis

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

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

### 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.

### 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.

### Myrcene

A monoterpene with a fragrance that can be described as peppery, spicy, herbal, floral and woody. Although it has a pleasant odor, it is typically used by the perfume industry as precursor for developing other fragrances. Found in hops, houttuynia, bay, thyme, lemon grass, mango, verbena, cardamom, citrus...etc.

### TERPENOID TEST RESULTS - 04/06/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	0.005 / 0.016	±0.0091	0.816	0.0816
Linalool	0.009/0.032	±0.0011	0.037	0.0037
Myrcene	0.008 / 0.025	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></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
$\alpha$ -Phellandrene	0.006 / 0.020	N/A	ND	ND
$\Delta^3$ -Carene	0.005/0.018	N/A	ND	ND
α-Terpinene	0.005/0.017	N/A	ND	ND
p-Cymene	0.005/0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
β-Ocimene	0.006 / 0.020	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	0.009/0.031		ND	ND
Nerol	0.003/0.011	N/A	ND	ND
Citronellol	0.003/0.010	N/A	ND	ND
Pulegone	0.003/0.011		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 N/A	ND	ND
α-Humulene	0.009/0.029	N/A	ND	ND
Valencene	0.009/0.030	N/A	ND	ND
Nerolidol	0.006 / 0.019	N/A N/A	ND	ND
Caryophyllene Oxide	0.010 / 0.033		ND	ND
Guaiol	0.009 / 0.030	N/A N/A	ND	ND
Cedrol	0.008/0.027	N/A N/A	ND	ND
α-Bisabolol	0.008 / 0.027		ND	ND
	0.00070.020		0.853 mg/g	0.0853%

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### 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 - 04/06/2022 🔗 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
Diazinon	0.02/0.05	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.03/0.09	≥LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥LOD	N/A	ND	PASS
Dimethomorph	0.03/0.09	20	N/A	ND	PASS
Ethoprophos	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

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### Pesticide Analysis Continued

### PESTICIDE TEST RESULTS - 04/06/2022 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
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
Parathion-methyl	0.03/0.10	≥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
Piperonyl Butoxide	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

# ្លំ🖗 Mycotoxin Analysis

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

 $\ensuremath{\textbf{Method:}}\xspace$  QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

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

### MYCOTOXIN TEST RESULTS - 04/06/2022 🔗 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





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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



#### LOD/LOQ ACTION LIMIT MEASUREMENT RESULT COMPOUND RESULT (µg/g) (µg/g) UNCERTAINTY (µg/g) (µg/g) Propane 10/20 5000 N/A ND PASS 10/50 5000 ND PASS n-Butane N/A n-Pentane 20/50 5000 N/A ND PASS n-Hexane 2/5 290 N/A ND PASS 20/60 5000 PASS n-Heptane N/A ND 0.03/0.09 N/A ND PASS Benzene 1 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 2-Propanol 10/40 5000 N/A ND PASS (Isopropyl Alcohol) 20/50 5000 N/A ND PASS Acetone **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 Dichloromethane (Methylene Chloride) 0.3/0.9 1 N/A ND PASS 0.1/0.3 Trichloroethylene 1 N/A ND PASS 0.05/0.1 1,2-Dichloroethane 1 N/A ND PASS Acetonitrile 2/7 410 N/A ND PASS

### HEAVY METALS TEST RESULTS - 04/05/2022 O 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 TEST RESULTS (PCR) - 04/08/2022 O PASS

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



PCR AND PLATING

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

Method: QSP 1221 - Analysis of Microbiological Contaminants

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

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

# Ö. 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

# Microbiology Analysis Continued MICROBIOLOGY TEST RESULTS (PLATING) - 04/08/2022 OPASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Total Aerobic Bacteria	100	ND	PASS
Total Yeast and Mold	10	ND	PASS

### FOREIGN MATERIAL TEST RESULTS - 04/05/2022 O PASS

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dir	t >25%	PASS
Total Sample Area Covered by Mold	>25%	PASS
Total Sample Area Covered by an Imbedded Foreign Ma	terial >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

1. Exclusions: QSP 1213 - Sample Certification: California Code of Regulation Title 4 Division 19 2. Exclusions: QSP 1212 - Sample Certification: California Code of Regulation Title 4 Division 19 3. Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19 4. Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19