

# Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 06/07/2020

#### SAMPLE NAME: cbdMD Tincture 30 mL Berry 300 mg Infused, Non-Inhalable

#### CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

#### SAMPLE DETAIL

Batch Number: 01541Q1.1 Sample ID: 200604P004

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Business Name: cbdMD License Number: Address:

Date Collected: 06/04/2020 Date Received: 06/04/2020 Batch Size: Sample Size: 1.0 Unit(s) 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 THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:	Moisture: NT
Total CBD: 312.420 mg/unit	Total THC = $\Delta$ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877))	Density: 0.9512 g/mL
Total Cannabinoids: 317.610 mg/unit	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) + Δ8THC + CBL + CBN	Viscosity: NT
SAFETY ANALYSIS - SUMMARY		

Pesticides: NT	Heavy Metals: NT	Foreign Material: NT
Mycotoxins: NT	Microbial Impurities (PCR): <b>OPASS</b>	Water Activity: NT
Residual Solvents: NT	Microbial Impurities (Plating): ND	Vitamin E Acetate: NT

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

Limonene 0.63 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: 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)

LOC verified by: Reza Naemeh Date: 06/07/2020 Approved by: Josh Wurzer, President Date: 06/07/2020

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35 TESTED, TOP 3 HIGHLIGHTED



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

CBDMD TINCTURE 30 ML BERRY 300 MG | DATE ISSUED 06/07/2020



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: 312.420 mg/unit

Total CBD (CBD+0.877\*CBDa)

#### TOTAL CANNABINOIDS: 317.610 mg/unit

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

#### TOTAL CBG: 2.760 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: 1.410 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

#### CANNABINOID TEST RESULTS - 06/06/2020

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004/0.011	±0.4988	10.414	1.0948
CBG	0.002 / 0.005	±0.0057	0.092	0.0097
CBDV	0.002/0.007	±0.0025	0.047	0.0049
CBN	0.001 / 0.004	±0.0013	0.034	0.0036
<b>Δ9THC</b>	0.002 / 0.005	N/A	ND	ND
∆8THC	0.01/0.02	N/A	ND	ND
THCa	0.001 / 0.002	N/A	ND	ND
THCV	0.002 / 0.008	N/A	ND	ND
THCVa	0.002 / 0.005	N/A	ND	ND
CBDa	0.001/0.003	N/A	ND	ND
CBDVa	0.001/0.003	N/A	ND	ND
CBGa	0.002 / 0.006	N/A	ND	ND
CBL	0.003 / 0.008	N/A	ND	ND
CBC	0.003/0.010	N/A	ND	ND
CBCa	0.001 / 0.004	N/A	ND	ND
SUM OF CANNA	BINOIDS		10.587 mg/mL	1.113%

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

Δ9THC per Unit	1000.0 per-package limit	ND	PASS
Δ9THC per Serving		ND	
Total THC per Unit		ND	
Total THC per Serving		ND	
CBD per Unit		312.420 mg/unit	
CBD per Serving		10.414 mg/serving	
Total CBD per Unit		312.420 mg/unit	
Total CBD per Serving		10.414 mg/serving	
Sum of Cannabinoids per Unit		317.610 mg/unit	
Sum of Cannabinoids per Serving		10.587 mg/serving	

MOISTURE TEST RESULT

DENSITY TEST RESULT

VISCOSITY TEST RESULT

Not Tested

0.9512 g/mL Tested 06/06/2020

Method: QSP - (1152) Sample Preparation

Not Tested



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# Reference of Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

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

#### Limonene

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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.



COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	0.02/0.05	±0.023	0.63	0.063
$\alpha$ Pinene	0.03/0.09	N/A	ND	ND
Camphene	0.04/0.11	N/A	ND	ND
Sabinene	0.04 / 0.11	N/A	ND	ND
βPinene	0.04 / 0.11	N/A	ND	ND
Myrcene	0.04 / 0.11	N/A	ND	ND
$\alpha$ Phellandrene	0.05 / 0.1	N/A	ND	ND
3 Carene	0.04 / 0.1	N/A	ND	ND
$\alpha$ Terpinene	0.04 / 0.1	N/A	ND	ND
Eucalyptol	0.03/0.08	N/A	ND	ND
Ocimene	0.03/0.09	N/A	ND	ND
γTerpinene	0.04 / 0.1	N/A	ND	ND
Sabinene Hydrate	0.02/0.07	N/A	ND	ND
Fenchone	0.04 / 0.12	N/A	ND	ND
Terpinolene	0.03/0.09	N/A	ND	ND
Linalool	0.03 / 0.08	N/A	ND	ND
Fenchol	0.03/0.09	N/A	ND	ND
(-)-Isopulegol	0.02/0.05	N/A	ND	ND
Camphor	0.1/0.2	N/A	ND	ND
Isoborneol	0.04 / 0.1	N/A	ND	ND
Borneol	0.1/0.2	N/A	ND	ND
Menthol	0.03/0.09	N/A	ND	ND
Terpineol	0.02/0.07	N/A	ND	ND
Nerol	0.03/0.09	N/A	ND	ND
R-(+)-Pulegone	0.03/0.09	N/A	ND	ND
Geraniol	0.02/0.07	N/A	ND	ND
Geranyl Acetate	0.02 / 0.06	N/A	ND	ND
α Cedrene	0.02/0.07	N/A	ND	ND
$\beta$ Caryophyllene	0.02/0.07	N/A	ND	ND
αHumulene	0.02/0.05	N/A	ND	ND
Valencene	0.01/0.03	N/A	ND	ND
Nerolidol	0.3/0.8	N/A	ND	ND
Caryophyllene Oxide	0.04 / 0.11	N/A	ND	ND
Guaiol	0.03/0.09	N/A	ND	ND
Cedrol	0.04 / 0.11	N/A	ND	ND
α Bisabolol	0.02/0.07	N/A	ND	ND
TOTAL TERPENOIDS			0.63 mg/g	0.063%



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# Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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# Microbial Impurities Analysis

PCR AND PLATING

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

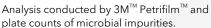
Method: QSP - (1221) Analysis of Microbial Impurities

#### MICROBIAL IMPURITIES TEST RESULTS (PCR) - 06/07/2020 OPASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Detect	ND	PASS
Salmonella spp.	Detect	ND	PASS
Aspergillus fumigatus		NT	
Aspergillus flavus		NT	
Aspergillus niger		NT	
Aspergillus terreus		NT	

## d MICROBIAL IMPURITIES TEST RESULTS (PLATING) - 06/07/2020 ND

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	ND
Total Yeast and Mold	ND



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

