

Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 09/22/2021

SAMPLE NAME: cbdMD Full Spectrum Tincture 30 mL Chocolate Mint 3000 mg

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

SAMPLE DETAIL

Batch Number: 12601D6 Sample ID: 210918R006

DISTRIBUTOR / TESTED FOR

Business Name: cbdMD License Number:

Address.

Date Collected: 09/18/2021 Date Received: 09/18/2021

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: 40.590 mg/unit

Total CBD: 3281.490 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 = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 3420.690 mg/unitTHCV + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta 8THC + CBL + CBN Fotal Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) +

Density: 0.9559 g/mL

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.2174%

Menthol 0.972 mg/g

lacksquare lpha Bisabolol 0.316 mg/g

 β Caryophyllene 0.166 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: PASS

Heavy Metals: OPASS

Mycotoxins: PASS

Microbiology (PCR): PASS

Residual Solvents: PASS

Microbiology (Plating): 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

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)

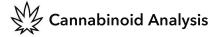
LQC verified by: Michael Pham Date: 09/22/2021

roved by: Josh Wurzer, President



CERTIFICATE OF ANALYSIS

CBDMD FULL SPECTRUM TINCTURE 30 ML CHOCOLATE MINT 3000 MG | DATE ISSUED 09/22/2021



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

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

TOTAL THC: 40.590 mg/unit

Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 3281.490 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 3420.690 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ 8THC + CBL + CBN

TOTAL CBG: 21.360 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 52.500 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 15.690 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 09/19/2021

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±5.2394	109.383	11.4429
СВС	0.003 / 0.010	±0.0724	1.750	0.1831
Δ9ΤΗС	0.002 / 0.014	±0.0954	1.353	0.1415
CBG	0.002 / 0.006	±0.0443	0.712	0.0745
CBDV	0.002 / 0.012	±0.0274	0.523	0.0547
CBN	0.001 / 0.007	±0.0078	0.211	0.0221
CBL	0.003 / 0.010	±0.0043	0.091	0.0095
Δ8ΤΗС	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
CBCa	0.001 / 0.015	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
SUM OF CANNABINOIDS			114.023 mg/mL	11.9283%

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

Δ9THC per Unit	40.590 mg/unit		
Δ9THC per Serving	1.353 mg/serving		
Total THC per Unit	40.590 mg/unit		
Total THC per Serving	1.353 mg/serving		
CBD per Unit	3281.490 mg/unit		
CBD per Serving	109.383 mg/serving		
Total CBD per Unit	3281.490 mg/unit		
Total CBD per Serving	109.383 mg/serving		
Sum of Cannabinoids per Unit	3420.690 mg/unit		
Sum of Cannabinoids per Serving	114.023 mg/serving		
Total Cannabinoids per Unit	3420.690 mg/unit		
Total Cannabinoids per Serving	114.023 mg/serving		

DENSITY TEST RESULT

0.9559 g/mL

Tested 09/19/2021

Method: QSP 7870 - Sample Preparation







CERTIFICATE OF ANALYSIS

CBDMD FULL SPECTRUM TINCTURE 30 ML CHOCOLATE MINT 3000 MG | DATE ISSUED 09/22/2021



Terpenoid Analysis

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

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



Menthol

A monoterpenoid alcohol with a fragrance that can be described as fresh, cool and herbal. It is responsible for the distinct odor of mint. It is frequently added to cigarettes and mouthwash as a flavorant. Found in mint, sunflower, micromeria, mountain mint, rose geranium, pennyroyal, tarragon, savory, basil, juniper, couch grass, rhubarb, acinos (basil thyme), ironwort, muña...etc.



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.



β Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

TERPENOID TEST RESULTS - 09/19/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Menthol	0.008 / 0.025	±0.0389	0.972	0.0972
α Bisabolol	0.008 / 0.026	±0.0169	0.316	0.0316
β Caryophyllene	0.004 / 0.012	±0.0059	0.166	0.0166
Eucalyptol	0.006 / 0.018	±0.0038	0.149	0.0149
Guaiol	0.009 / 0.030	±0.0066	0.140	0.0140
Caryophyllene Oxide	0.010 / 0.033	±0.0040	0.088	0.0088
Borneol	0.005 / 0.016	±0.0037	0.087	0.0087
Limonene	0.005 / 0.016	±0.0009	0.064	0.0064
α Humulene	0.009 / 0.029	±0.0018	0.057	0.0057
R-(+)-Pulegone	0.003 / 0.011	±0.0020	0.050	0.0050
Nerolidol	0.009 / 0.028	±0.0021	0.033	0.0033
β Pinene	0.004 / 0.014	±0.0004	0.031	0.0031
α Pinene	0.005 / 0.017	±0.0002	0.021	0.0021
Sabinene	0.004 / 0.014	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
γTerpinene	0.006 / 0.018	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Sabinene Hydrate	0.006 / 0.022	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Terpineol	0.016 / 0.055	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
trans-β-Farnesene	0.008 / 0.025	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Camphene	0.005 / 0.015	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
p-Cymene	0.005 / 0.016	N/A	ND	ND
Ocimene	0.011/0.038	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
Nerol	0.003 / 0.011	N/A	ND	ND
Citronellol	0.003 / 0.010	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
Valencene	0.009 / 0.030	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS	_		2.174 mg/g	0.2174%

