

**SAMPLE NAME:** cbdMD Full Spectrum 60 count 2000 mg Softgels  
Infused, Hemp Infused

**CULTIVATOR / MANUFACTURER**

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

**DISTRIBUTOR / TESTED FOR**

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



**SAMPLE DETAIL**

**Batch Number:** 12591D8  
**Sample ID:** 210918R008

**Date Collected:** 09/18/2021  
**Date Received:** 09/18/2021  
**Batch Size:**  
**Sample Size:** 1.0 units  
**Unit Mass:** 33.8123 grams per Unit  
**Serving Size:** 0.5635 grams per Serving



Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**

**Total THC:** 54.708 mg/unit

**Total CBD:** 2379.541 mg/unit

**Sum of Cannabinoids:** 2563.750 mg/unit

**Total Cannabinoids:** 2563.750 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 =  $\Delta^9\text{THC} + (\text{THCa} \cdot 0.877)$   
 Total CBD =  $\text{CBD} + (\text{CBDa} \cdot 0.877)$   
 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 =  $(\Delta^9\text{THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{THC} + \text{CBL} + \text{CBN}$

**TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids:** 0.0849%

●  $\alpha$  Bisabolol 0.369 mg/g    
 ● Guaiol 0.168 mg/g    
 ●  $\beta$  Caryophyllene 0.114 mg/g

**SAFETY ANALYSIS - SUMMARY**

**Pesticides:** ✔ PASS

**Mycotoxins:** ✔ PASS

**Residual Solvents:** ✔ PASS

**Heavy Metals:** ✔ PASS

**Microbiology (PCR):** ✔ 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 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: 09/22/2021



Approved by: Josh Wurzer, President  
Date: 09/22/2021



CANNABINOID TEST RESULTS - 09/19/2021

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

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

**TOTAL THC: 54.708 mg/unit**

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

**TOTAL CBD: 2379.541 mg/unit**

Total CBD (CBD+0.877\*CBDA)

**TOTAL CANNABINOIDS: 2563.750 mg/unit**

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

**TOTAL CBG: 30.330 mg/unit**

Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV: ND**

Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC: 73.474 mg/unit**

Total CBC (CBC+0.877\*CBCa)

**TOTAL CBDV: 12.612 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±3.3710	70.375	7.0375
CBC	0.003 / 0.010	±0.0900	2.173	0.2173
$\Delta 9$ THC	0.002 / 0.014	±0.1141	1.618	0.1618
CBG	0.002 / 0.006	±0.0558	0.897	0.0897
CBDV	0.002 / 0.012	±0.0195	0.373	0.0373
CBN	0.001 / 0.007	±0.0098	0.265	0.0265
CBL	0.003 / 0.010	±0.0058	0.122	0.0122
$\Delta 8$ 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
CBCa	0.001 / 0.015	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>75.823 mg/g</b>	<b>7.5823%</b>

Unit Mass: 33.8123 grams per Unit / Serving Size: 0.5635 grams per Serving

$\Delta 9$ THC per Unit	54.708 mg/unit
$\Delta 9$ THC per Serving	0.912 mg/serving
Total THC per Unit	54.708 mg/unit
Total THC per Serving	0.912 mg/serving
CBD per Unit	2379.541 mg/unit
CBD per Serving	39.656 mg/serving
Total CBD per Unit	2379.541 mg/unit
Total CBD per Serving	39.656 mg/serving
Sum of Cannabinoids per Unit	2563.750 mg/unit
Sum of Cannabinoids per Serving	42.726 mg/serving
Total Cannabinoids per Unit	2563.750 mg/unit
Total Cannabinoids per Serving	42.725 mg/serving



## Terpenoid Analysis

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

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

**1 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.

**2 Guaiol**  
 A sesquiterpene alcohol with a fragrance that can be described as floral, piney, herbal and woody. Found in guaiacum, cypress pine, ginseng, melaleuca, goatweed, incense grass...etc.

**3 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 CB<sub>2</sub> 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 (%)
α Bisabolol	0.008 / 0.026	±0.0197	0.369	0.0369
Guaiol	0.009 / 0.030	±0.0079	0.168	0.0168
β Caryophyllene	0.004 / 0.012	±0.0041	0.114	0.0114
Caryophyllene Oxide	0.010 / 0.033	±0.0048	0.104	0.0104
α Humulene	0.009 / 0.029	±0.0020	0.063	0.0063
Nerolidol	0.009 / 0.028	±0.0019	0.031	0.0031
Borneol	0.005 / 0.016	N/A	<LOQ	<LOQ
trans-β-Farnesene	0.008 / 0.025	N/A	<LOQ	<LOQ
Valencene	0.009 / 0.030	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
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
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
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
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
Cedrol	0.008 / 0.027	N/A	ND	ND
<b>TOTAL TERPENOIDS</b>			<b>0.849 mg/g</b>	<b>0.0849%</b>

