

SAMPLE NAME: cbdmd 60 count 1500 mg Capsules

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: cbdMD

License Number:

Address:

SAMPLE DETAIL

Batch Number: 11661A5

Sample ID: 210622R003

Date Collected: 06/22/2021

Date Received: 06/22/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 42.366 grams per Unit

Serving Size: 0.7061 grams per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected

Total CBD: 1636.980 mg/unit

Sum of Cannabinoids: 1657.782 mg/unit

Total Cannabinoids: 1657.782 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: 0.0858%

● Limonene 0.792 mg/g ● α Humulene 0.039 mg/g ● β Caryophyllene 0.027 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Mycotoxins: ND

Residual Solvents: ND

Heavy Metals: ND

Microbiology (PCR): ND

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)

 
 LQC verified by: Mackenzie Whitman Date: 06/29/2021
 Approved by: Josh Wurzer, President Date: 06/29/2021

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 ($\Delta^9\text{THC} + 0.877 \cdot \text{THCa}$)

TOTAL CBD: **1636.980 mg/unit**

Total CBD ($\text{CBD} + 0.877 \cdot \text{CBDa}$)

TOTAL CANNABINOIDS: **1657.782 mg/unit**

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

TOTAL CBG: **9.617 mg/unit**

Total CBG ($\text{CBG} + 0.877 \cdot \text{CBGa}$)

TOTAL THCV: **ND**

Total THCV ($\text{THCV} + 0.877 \cdot \text{THCVa}$)

TOTAL CBC: **<LOQ**

Total CBC ($\text{CBC} + 0.877 \cdot \text{CBCa}$)

TOTAL CBDV: **7.838 mg/unit**

Total CBDV ($\text{CBDV} + 0.877 \cdot \text{CBDVa}$)

CANNABINOID TEST RESULTS - 06/23/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	± 1.8508	38.639	3.8639
CBG	0.002 / 0.006	± 0.0141	0.227	0.0227
CBDV	0.002 / 0.012	± 0.0097	0.185	0.0185
CBN	0.001 / 0.007	± 0.0029	0.079	0.0079
CBC	0.003 / 0.010	N/A	<LOQ	<LOQ
$\Delta^9\text{THC}$	0.002 / 0.014	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
$\Delta^8\text{THC}$	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
CBL	0.003 / 0.010	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			39.130 mg/g	3.913%

Unit Mass: 42.366 grams per Unit / Serving Size: 0.7061 grams per Serving

$\Delta^9\text{THC}$ per Unit	ND
$\Delta^9\text{THC}$ per Serving	ND
Total THC per Unit	ND
Total THC per Serving	ND
CBD per Unit	1636.980 mg/unit
CBD per Serving	27.283 mg/serving
Total CBD per Unit	1636.980 mg/unit
Total CBD per Serving	27.283 mg/serving
Sum of Cannabinoids per Unit	1657.782 mg/unit
Sum of Cannabinoids per Serving	27.630 mg/serving
Total Cannabinoids per Unit	1657.782 mg/unit
Total Cannabinoids per Serving	27.630 mg/serving





Terpenoid Analysis

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

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

TERPENOID TEST RESULTS - 06/23/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	0.005 / 0.016	±0.0113	0.792	0.0792
α Humulene	0.009 / 0.029	±0.0013	0.039	0.0039
β Caryophyllene	0.004 / 0.012	±0.0010	0.027	0.0027
Myrcene	0.008 / 0.025	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
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
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
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
trans-β-Farnesene	0.008 / 0.025	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			0.858 mg/g	0.0858%

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.

2 α Humulene

Also known as α-caryophyllene, it is an isomer of the sesquiterpene β-Caryophyllene which frequently occurs in nature with many aromatic plants across the globe. It has a fragrance that can be described as earthy or musky with spicy undertones. Found in hops, forskohlii, skullcaps, basil, nutmeg, cloves, sage, cotton, tamarind, black pepper, guava, Scotch pine...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 CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.





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

PESTICIDE TEST RESULTS - 06/24/2021 ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Abamectin	0.03 / 0.10	0.07	N/A	ND
Acephate	0.02 / 0.07	0.05	N/A	ND
Acequinocyl	0.02 / 0.07	0.03	N/A	ND
Acetamiprid	0.02 / 0.05	0.05	N/A	ND
Aldicarb	0.03 / 0.08	0.1	N/A	ND
Azoxystrobin	0.02 / 0.07	0.01	N/A	ND
Bifenazate	0.01 / 0.04	0.01	N/A	ND
Bifenthrin	0.02 / 0.05	0.2	N/A	ND
Boscalid	0.03 / 0.09	0.01	N/A	ND
Captan	0.19 / 0.57	3	N/A	ND
Carbaryl	0.02 / 0.06	0.025	N/A	ND
Carbofuran	0.02 / 0.05	0.01	N/A	ND
Chlorantraniliprole	0.04 / 0.12	0.02	N/A	ND
Chlordane*	0.03 / 0.08	0.1	N/A	ND
Chlorfenapyr*	0.03 / 0.10	0.1	N/A	ND
Chlorpyrifos	0.02 / 0.06	0.04	N/A	ND
Clofentezine	0.03 / 0.09	0.01	N/A	ND
Coumaphos	0.02 / 0.07	0.01	N/A	ND
Cyfluthrin	0.12 / 0.38	0.1	N/A	ND
Cypermethrin	0.11 / 0.32	0.3	N/A	ND
Daminozide	0.02 / 0.07	0.1	N/A	ND
DDVP (Dichlorvos)	0.03 / 0.09	0.1	N/A	ND
Diazinon	0.02 / 0.05	0.02	N/A	ND
Dimethoate	0.03 / 0.08	0.1	N/A	ND
Dimethomorph	0.03 / 0.09	0.05	N/A	ND
Ethoprop(hos)	0.03 / 0.10	0.01	N/A	ND
Etofenprox	0.02 / 0.06	0.05	N/A	ND
Etoxazole	0.02 / 0.06	0.01	N/A	ND
Fenhexamid	0.03 / 0.09	0.125	N/A	ND
Fenoxycarb	0.03 / 0.08	0.01	N/A	ND
Fenpyroximate	0.02 / 0.06	0.2	N/A	ND
Fipronil	0.03 / 0.08	0.01	N/A	ND
Flonicamid	0.03 / 0.10	0.025	N/A	ND
Fludioxonil	0.03 / 0.10	0.01	N/A	ND
Hexythiazox	0.02 / 0.07	0.01	N/A	ND
Imazalil	0.02 / 0.06	0.01	N/A	ND
Imidacloprid	0.04 / 0.11	0.01	N/A	ND
Kresoxim-methyl	0.02 / 0.07	0.02	N/A	ND
Malathion	0.03 / 0.09	0.02	N/A	ND
Metalaxyl	0.02 / 0.07	0.02	N/A	ND
Methiocarb	0.02 / 0.07	0.02	N/A	ND

Continued on next page



Pesticide Analysis *Continued*

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

PESTICIDE TEST RESULTS - 06/24/2021 *continued* ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Methomyl	0.03 / 0.10	0.05	N/A	ND
Methyl parathion	0.03 / 0.10	0.05	N/A	ND
Mevinphos	0.03 / 0.09	0.025	N/A	ND
Myclobutanil	0.03 / 0.09	0.01	N/A	ND
Naled	0.02 / 0.07	0.1	N/A	ND
Oxamyl	0.04 / 0.11	0.5	N/A	ND
Paclobutrazol	0.02 / 0.05	0.01	N/A	ND
Pentachloronitrobenzene*	0.03 / 0.09	0.02	N/A	ND
Permethrin	0.04 / 0.12	0.04	N/A	ND
Phosmet	0.03 / 0.10	0.02	N/A	ND
Piperonylbutoxide	0.02 / 0.07	0.2	N/A	ND
Prallethrin	0.03 / 0.08	0.05	N/A	ND
Propiconazole	0.02 / 0.07	0.1	N/A	ND
Propoxur	0.03 / 0.09	0.01	N/A	ND
Pyrethrins	0.04 / 0.12	0.05	N/A	ND
Pyridaben	0.02 / 0.07	0.02	N/A	ND
Spinetoram	0.02 / 0.07	0.01	N/A	ND
Spinosad	0.02 / 0.07	0.01	N/A	ND
Spiromesifen	0.02 / 0.05	0.03	N/A	ND
Spirotetramat	0.02 / 0.06	0.01	N/A	ND
Spiroxamine	0.03 / 0.08	0.1	N/A	ND
Tebuconazole	0.02 / 0.07	0.01	N/A	ND
Thiacloprid	0.03 / 0.10	0.01	N/A	ND
Thiamethoxam	0.03 / 0.10	0.01	N/A	ND
Trifloxystrobin	0.03 / 0.08	0.02	N/A	ND

Mycotoxin Analysis

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

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

MYCOTOXIN TEST RESULTS - 06/24/2021 ND

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)
Aflatoxin B1	2.0 / 6.0	5	N/A	ND
Aflatoxin B2	1.8 / 5.6	20	N/A	ND
Aflatoxin G1	1.0 / 3.1	20	N/A	ND
Aflatoxin G2	1.2 / 3.5	20	N/A	ND
Total Aflatoxin		20		ND
Ochratoxin A	6.3 / 19.2	5	N/A	ND





Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

RESIDUAL SOLVENTS TEST RESULTS - 06/25/2021 ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propane	10 / 20	500	N/A	ND
Butane	10 / 50	2000	N/A	ND
Pentane	20 / 50	1000	N/A	ND
Hexane	2 / 5	ND	N/A	ND
Heptane	20 / 60	500	N/A	ND
Benzene	0.03 / 0.09	ND	N/A	ND
Toluene	7 / 21	ND	N/A	ND
Total Xylenes	50 / 160	217	N/A	ND
Methanol	50 / 200	500	N/A	ND
Ethanol	20 / 50	1000	N/A	ND
Isopropyl Alcohol	10 / 40	500	N/A	ND
Acetone	20 / 50	5000	N/A	ND
Ethyl ether	20 / 50	5000	N/A	ND
Ethylene Oxide	0.3 / 0.8	5	N/A	ND
Ethyl acetate	20 / 60	1000	N/A	ND
Chloroform	0.1 / 0.2	1	N/A	ND
Methylene chloride	0.3 / 0.9	600	N/A	ND
Trichloroethylene	0.1 / 0.3	80	N/A	ND
1,2-Dichloroethane	0.05 / 0.1	5	N/A	ND
Acetonitrile	2 / 7	0.41	N/A	ND



Heavy Metals Analysis

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

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

HEAVY METALS TEST RESULTS - 06/29/2021 ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Arsenic	0.02 / 0.1	0.42	N/A	ND
Cadmium	0.02 / 0.05	0.27	N/A	ND
Lead	0.04 / 0.1	0.5	N/A	ND
Mercury	0.002 / 0.01	0.4	N/A	ND



Microbiology Analysis

PCR

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

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 06/25/2021 ND

COMPOUND	ACTION LIMIT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 25g	ND
<i>Salmonella</i> spp.	Detect	ND



NOTES

COA amended, update to order detail information.

Certificate of Analysis

CBD Industries

8845 Red Oak Blvd
Charlotte North Carolina 28217 United States

Sample Name:	cbdMD 60 count 1500 mg Capsules	Eurofins Sample:	10699110
Project ID	CBD_INDUST-20210621-0031	Receipt Date	22-Jun-2021
PO Number		Receipt Condition	Ambient temperature
Lot Number	11661A5	Login Date	21-Jun-2021
Sample Serving Size		Date Started	29-Jun-2021
		Sampled	Sample results apply as received
		Online Order	14794-1593555F

Analysis	Result
Aerobic Plate Count	
Aerobic Plate Count	500 (est) CFU/g
Yeast and Mold Count	
Combined Yeast and Mold Count	<100 CFU/g

Method References	Testing Location
--------------------------	-------------------------

Aerobic Plate Count (USPC2021)

Eurofins Micro Lab - Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Yeast and Mold Count (USPM2021)

Eurofins Micro Lab - Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Certificate of Analysis

CBD Industries

8845 Red Oak Blvd

Charlotte North Carolina 28217 United States

Testing Location(s)	Released on Behalf of Eurofins by
Food Integrity Innovation-Madison Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	Edward Ladwig - President Eurofins Food Chemistr

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.