

## **Hemp Quality Assurance Testing**

# **CERTIFICATE OF ANALYSIS**

**DATE ISSUED 09/24/2021** 

### SAMPLE NAME: cbdMD Full Spectrum Tincture 30 mL Chocolate Mint 750 mg

Infused, Hemp Infused

**CULTIVATOR / MANUFACTURER** 

**Business Name:** License Number:

Address:

SAMPLE DETAIL

Batch Number: 12601D4 / 12641D4

Sample ID: 210918R004

**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: 42.300 mg/unit

Total CBD: 834.240 mg/unit

Total Cannabinoids: 975.750 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 =  $\Delta$ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids =  $\Delta$ 9THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 975.750 mg/unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN Total Cannabinoids =  $(\Delta 9THC + 0.877*THCa) + (CBD+0.877*CBDa) +$ (CBG+0.877\*CBGa) + (THCV+0.877\*THCVa) + (CBC+0.877\*CBCa) +

(CBDV+0.877\*CBDVa) + Δ8THC + CBL + CBN

Density: 0.9498 g/mL

### **TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.1823%

Menthol 0.964 mg/g

 $\alpha$  Bisabolol 0.180 mg/g

Eucalyptol 0.143 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)



CBDMD FULL SPECTRUM TINCTURE 30 ML CHOCOLATE MINT 750 MG | DATE ISSUED 09/24/2021



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

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

TOTAL THC: 42.300 mg/unit

Total THC (Δ9THC+0.877\*THCa)

TOTAL CBD: 834.240 mg/unit

Total CBD (CBD+0.877\*CBDa)

TOTAL CANNABINOIDS: 975.750 mg/unit

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

TOTAL CBG: 22.530 mg/unit

Total CBG (CBG+0.877\*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877\*THCVa)

TOTAL CBC: 62.250 mg/unit

Total CBC (CBC+0.877\*CBCa)

TOTAL CBDV: 4.860 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	±1.3320	27.808	2.9278
	СВС	0.003 / 0.010	±0.0859	2.075	0.2185
	Δ9ΤΗС	0.002/0.014	±0.0994	1.410	0.1485
	CBG	0.002 / 0.006	±0.0467	0.751	0.0791
	CBN	0.001 / 0.007	±0.0083	0.224	0.0236
	CBDV	0.002/0.012	±0.0085	0.162	0.0171
	CBL	0.003 / 0.010	±0.0045	0.095	0.0100
	THCa	0.001 / 0.005	N/A	ND	ND
	Δ8ΤΗC	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
	SUM OF CANNAB	INOIDS		32.525 mg/mL	3.4244%

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

Δ9THC per Unit	42.300 mg/unit
Δ9THC per Serving	1.410 mg/serving
Total THC per Unit	42.300 mg/unit
Total THC per Serving	1.410 mg/serving
CBD per Unit	834.240 mg/unit
CBD per Serving	27.808 mg/serving
Total CBD per Unit	834.240 mg/unit
Total CBD per Serving	27.808 mg/serving
Sum of Cannabinoids per Unit	975.750 mg/unit
Sum of Cannabinoids per Serving	32.525 mg/serving
Total Cannabinoids per Unit	975.750 mg/unit
Total Cannabinoids per Serving	32.525 mg/serving

#### **DENSITY TEST RESULT**

0.9498 g/mL

Tested 09/19/2021

**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



### 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.



### $\alpha$ 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.



### **Eucalyptol**

A monoterpenoid alcohol with a fragrance that can be described as a combination of fresh, spicy, herbal and minty. It is sometimes added to cigarettes and mouthwashes as a flavorant. Although sometimes used as an insect repellant, it is a powerful attractant to certain male bees. Found in eucalyptus, rosemary, wormwood, sage...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	±0.0386	0.964	0.0964
$\alpha$ Bisabolol	0.008 / 0.026	±0.0096	0.180	0.0180
Eucalyptol	0.006 / 0.018	±0.0036	0.143	0.0143
β Caryophyllene	0.004 / 0.012	±0.0043	0.121	0.0121
Borneol	0.005 / 0.016	±0.0037	0.088	0.0088
Guaiol	0.009 / 0.030	±0.0037	0.078	0.0078
Limonene	0.005 / 0.016	±0.0008	0.059	0.0059
R-(+)-Pulegone	0.003 / 0.011	±0.0020	0.050	0.0050
Caryophyllene Oxide	0.010 / 0.033	±0.0023	0.049	0.0049
α Humulene	0.009 / 0.029	±0.0012	0.038	0.0038
β Pinene	0.004 / 0.014	±0.0004	0.032	0.0032
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<>
αTerpinene	0.005 / 0.017	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
p-Cymene	0.005 / 0.016	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<>
Nerolidol	0.009 / 0.028	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
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			1.823 mg/g	0.1823%







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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

### PESTICIDE TEST RESULTS - 09/20/2021 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
DDVP (Dichlorvos)	0.03 / 0.09	≥LOD	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.2	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥LOD	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	20	N/A	ND	PASS
Ethoprop(hos)	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
lmazalil	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



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# 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 - 09/20/2021 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
	Methyl parathion	0.03 / 0.10	≥LOD	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
Ī	Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND	PASS
	Permethrin	0.04 / 0.12	20	N/A	ND	PASS
Ī	Phosmet	0.03 / 0.10	0.2	N/A	ND	PASS
	Piperonylbutoxide	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
Ī	Spinetoram	0.02 / 0.07	3	N/A	ND	PASS
	Spinosad	0.02 / 0.07	3	N/A	ND	PASS
Ī	Spiromesifen	0.02 / 0.05	12	N/A	ND	PASS
4	Spirotetramat	0.02 / 0.06	13	N/A	ND	PASS
	Spiroxamine	0.03 / 0.08	≥LOD	N/A	ND	PASS
V	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



# **Mycotoxin Analysis**

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

**Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by

### MYCOTOXIN TEST RESULTS - 09/19/2021 **⊘** PASS

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







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# **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 - 09/20/2021 **⊘** PASS

	COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
	Propane	10/20	5000	N/A	ND	PASS
	Butane	10/50	5000	N/A	ND	PASS
	Pentane	20 / 50	5000	N/A	ND	PASS
	Hexane	2/5	290	N/A	ND	PASS
	Heptane	20 / 60	5000	N/A	ND	PASS
1	Benzene	0.03 / 0.09	1	N/A	ND	PASS
Ī	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	±15.7	413	PASS
	Isopropyl Alcohol	10 / 40	5000	N/A	ND	PASS
	Acetone	20 / 50	5000	N/A	ND	PASS
	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
	Methylene chloride	0.3 / 0.9	1	N/A	ND	PASS
	Trichloroethylene	0.1 / 0.3	1	N/A	ND	PASS
Ī	1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
1	Acetonitrile	2/7	410	N/A	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

### HEAVY METALS TEST RESULTS - 09/19/2021 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





# **Hemp Quality Assurance Testing**

### **CERTIFICATE OF ANALYSIS**

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# **Microbiology Analysis**

PCR AND PLATING

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

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by  $3M^{TM}$  Petrifilm and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

### MICROBIOLOGY TEST RESULTS (PCR) - 09/22/2021 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	Detect	ND	PASS

### MICROBIOLOGY TEST RESULTS (PLATING) - 09/22/2021 PASS

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

#### **NOTES**

Sample Certification: Updated to meet California Code of Regulations Title 16 CoA Amended Update to Order Details: Batch IDs

