

DATE ISSUED 06/19/2021

## SAMPLE NAME: cbdMD Tincture 30 mL Orange 1500 mg

Infused, Non-Inhalable

Infused, Non-Inhalable		
CULTIVATOR / MANUFACTUREF Business Name: License Number: Address:	R DISTRIBUTOR / TESTED FOR Business Name: cbdMD License Number: Address:	
SAMPLE DETAIL		CbdMD <sup>*</sup>
Batch Number: 11611T4 Sample ID: 210614R001	Date Collected: 06/14/2021 Date Received: 06/14/2021 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 - SUMM	IARY	
Total THC: <b>Not Detected</b> Total CBD: <b>1539.480 mg/unit</b> Sum of Cannabinoids: 1560.390 mg/u Total Cannabinoids: 1560.390 mg/un	$\label{eq:constraint} \begin{array}{l} Total THC/CBD is calculated using the following formulas to account the loss of a carboxyl group during the decarboxylat Total THC = \Delta9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = \Delta9THC + THCa + CBD + CBDa + CB unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta8THC + Total Cannabinoids = (\Delta9THC+0.877*THCa) + (CBD+0.877*CBOa) + (THCV+0.877*THCVa) + (CBC+0.877*CBDVa) + \Delta8THC + CBL + CBN (CBDV+0.877*CBDVa) + \Delta8THC + CBL + CBN$	tion step: Density: 0.948 g/mL IG + CBGa + - CBL + CBN CBDa) +
TERPENOID ANALYSIS - SUMMAR	Y	39 TESTED, TOP 3 HIGHLIGHTED
Total Terpenoids: 0.0696%	Limonene 0.696 mg/g 🛛 🌑 α Pinene <l0< td=""><td>OQ Myrcene <loq< td=""></loq<></td></l0<>	OQ Myrcene <loq< td=""></loq<>
SAFETY ANALYSIS - SUMMARY		
Pesticides: ND	Mycotoxins: ND	Residual Solvents: DETECTED
Heavy Metals: ND	Microbiology (PCR): ND	Microbiology (Plating): ND
For quality assurance purposes. Not a Pre-Harvest Hemp La to the sample included on this report. This report shall not b approval of the laboratory. <b>Sample Certification:</b> Action Limits used in this report are agencies in all states. Action limits for required tests are eith state regulations based upon the panel requested.	be reproduced, except in full, without written a compilation of guidance from state regulatory her state-specific, or the lower of any conflicting	
Decision Rule: Statements of conformity (e.g. Pass/Fail) to measurement uncertainty into account. Where statements or decision rules are applied: PASS – Results within limits/spec	specifications are made in this report without taking of conformity are made in this report, the following	Sung Muney Like Waze

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: Randi Vuong Date: 06/19/2021

Approved by: Josh Wurzer, President Date: 06/19/2021

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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD TINCTURE 30 ML ORANGE 1500 MG | DATE ISSUED 06/19/2021



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

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

TOTAL THC: Not Detected

Total THC (∆9THC+0.877\*THCa)

#### TOTAL CBD: 1539.480 mg/unit

Total CBD (CBD+0.877\*CBDa)

#### TOTAL CANNABINOIDS: 1560.390 mg/unit

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

### TOTAL CBG: 9.570 mg/unit

Total CBG (CBG+0.877\*CBGa)

#### TOTAL THCV: ND

Total THCV (THCV+0.877\*THCVa)

## TOTAL CBC: 11.340 mg/unit

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: <LOQ

Total CBDV (CBDV+0.877\*CBDVa)

#### CANNABINOID TEST RESULTS - 06/15/2021

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.080/0.220	±2.4580	51.316	5.4131
CBC	0.060/0.200	±0.0156	0.378	0.0399
CBG	0.040 / 0.120	±0.0198	0.319	0.0336
CBDV	0.040 / 0.240	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBN	0.020/0.140	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Δ9THC	0.040 / 0.280	N/A	ND	ND
Δ8THC	0.20/0.40	N/A	ND	ND
THCa	0.020 / 0.100	N/A	ND	ND
тнсу	0.040 / 0.240	N/A	ND	ND
THCVa	0.040 / 0.380	N/A	ND	ND
CBDa	0.020/0.520	N/A	ND	ND
CBDVa	0.020/0.360	N/A	ND	ND
CBGa	0.040 / 0.140	N/A	ND	ND
CBL	0.060/0.200	N/A	ND	ND
CBCa	0.020/0.300	N/A	ND	ND
SUM OF CANNA	BINOIDS		52.013 mg/mL	5.4866%

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

Δ9THC per Unit	1120 par packaga limit	ND
	1120 per-package limit	
Δ9THC per Serving		ND
Total THC per Unit		ND
Total THC per Serving		ND
CBD per Unit		1539.480 mg/unit
CBD per Serving		51.316 mg/serving
Total CBD per Unit		1539.480 mg/unit
Total CBD per Serving		51.316 mg/serving
Sum of Cannabinoids per Unit		1560.390 mg/unit
Sum of Cannabinoids per Serving		52.013 mg/serving
Total Cannabinoids per Unit		1560.390 mg/unit
Total Cannabinoids per Serving		52.013 mg/serving

#### DENSITY TEST RESULT

0.948 g/mL

Tested 06/15/2021

**Method:** QSP 7870 - Sample Preparation



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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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## Terpenoid Analysis

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

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

#### 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.

#### $\alpha$ Pinene

One of two isomers of the monoterpene Pinene, the most abundant terpene in the natural world. It is responsible for the distinct aroma of many coniferous trees, particularly pines, from which it derives its name. It is a primary constituent of turpentine. Found in pines, rose gun, parsley, frankincense, guava, juniper, rosemary, nutmeg, blue gum, valerian...etc.

### Myrcene

A monoterpene with a fragrance that can be described as peppery, spicy, herbal, floral and woody. Although it has a pleasant odor, it is typically used by the perfume industry as precursor for developing other fragrances. Found in hops, houttuynia, bay, thyme, lemon grass, mango, verbena, cardamom, citrus...etc.



### TERPENOID TEST RESULTS - 06/16/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	0.005/0.016	±0.0100	0.696	0.0696
$\alpha$ Pinene	0.005/0.017	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Myrcene	0.008/0.025	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Linalool	0.009/0.032	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Geranyl Acetate	0.004/0.014	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Valencene	0.009/0.030	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Camphene	0.005/0.015	N/A	ND	ND
Sabinene	0.004/0.014	N/A	ND	ND
$\beta$ Pinene	0.004/0.014	N/A	ND	ND
$\alpha$ Phellandrene	0.006/0.020	N/A	ND	ND
3 Carene	0.005/0.018	N/A	ND	ND
$\alpha$ 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
γTerpinene	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
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
$\alpha$ Cedrene	0.005/0.016	N/A	ND	ND
$\beta$ Caryophyllene	0.004/0.012	N/A	ND	ND
$trans-\beta$ -Farnesene	0.008 / 0.025	N/A	ND	ND
$\alpha$ Humulene	0.009/0.029	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
$\alpha$ Bisabolol	0.008 / 0.026	N/A	ND	ND
TOTAL TERPENOIDS			0.696 mg/g	0.0696%

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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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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 - 06/16/2021 ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Abamectin	0.03/0.10	0.3	N/A	ND
Acephate	0.02/0.07	5	N/A	ND
Acequinocyl	0.02/0.07	4	N/A	ND
Acetamiprid	0.02/0.05	5	N/A	ND
Aldicarb	0.03/0.08	≥LOD	N/A	ND
Azoxystrobin	0.02/0.07	40	N/A	ND
Bifenazate	0.01/0.04	5	N/A	ND
Bifenthrin	0.02/0.05	0.5	N/A	ND
Boscalid	0.03/0.09	10	N/A	ND
Captan	0.19/0.57	5	N/A	ND
Carbaryl	0.02/0.06	0.5	N/A	ND
Carbofuran	0.02/0.05	≥LOD	N/A	ND
Chlorantraniliprole	0.04/0.12	40	N/A	ND
Chlordane*	0.03 / 0.08	≥LOD	N/A	ND
Chlorfenapyr*	0.03 / 0.10	≥LOD	N/A	ND
Chlorpyrifos	0.02/0.06	≥LOD	N/A	ND
Clofentezine	0.03/0.09	0.5	N/A	ND
Coumaphos	0.02/0.07	≥LOD	N/A	ND
Cyfluthrin	0.12/0.38	1	N/A	ND
Cypermethrin	0.11/0.32	1	N/A	ND
Daminozide	0.02/0.07	≥LOD	N/A	ND
DDVP (Dichlorvos)	0.03/0.09	≥LOD	N/A	ND
Diazinon	0.02/0.05	0.2	N/A	ND
Dimethoate	0.03/0.08	≥LOD	N/A	ND
Dimethomorph	0.03/0.09	20	N/A	ND
Ethoprop(hos)	0.03/0.10	≥LOD	N/A	ND
Etofenprox	0.02/0.06	≥ LOD	N/A	ND
Etoxazole	0.02/0.06	1.5	N/A	ND
Fenhexamid	0.03/0.09	10	N/A	ND
Fenoxycarb	0.03/0.08	≥LOD	N/A	ND
Fenpyroximate	0.02 / 0.06	2	N/A	ND
Fipronil	0.03/0.08	_ ≥ LOD	N/A	ND
Flonicamid	0.03/0.10	2	N/A	ND
Fludioxonil	0.03 / 0.10	30	N/A	ND
Hexythiazox	0.02/0.07	2	N/A	ND
Imazalil	0.02/0.06	_ ≥ LOD	N/A	ND
Imidacloprid	0.04 / 0.11	3	N/A	ND
Kresoxim-methyl	0.02 / 0.07	1	N/A	ND
Malathion	0.03 / 0.09	5	N/A	ND
Metalaxyl	0.02 / 0.07	15	N/A	ND
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND



Continued on next page

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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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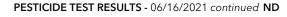


## Pesticide Analysis Continued

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



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Methomyl	0.03/0.10	0.1	N/A	ND
Methyl parathion	0.03/0.10	≥LOD	N/A	ND
Mevinphos	0.03/0.09	≥LOD	N/A	ND
Myclobutanil	0.03/0.09	9	N/A	ND
Naled	0.02/0.07	0.5	N/A	ND
Oxamyl	0.04/0.11	0.2	N/A	ND
Paclobutrazol	0.02/0.05	≥LOD	N/A	ND
Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND
Permethrin	0.04 / 0.12	20	N/A	ND
Phosmet	0.03/0.10	0.2	N/A	ND
Piperonylbutoxide	0.02/0.07	8	N/A	ND
Prallethrin	0.03/0.08	0.4	N/A	ND
Propiconazole	0.02/0.07	20	N/A	ND
Propoxur	0.03/0.09	≥LOD	N/A	ND
Pyrethrins	0.04 / 0.12	1	N/A	ND
Pyridaben	0.02/0.07	3	N/A	ND
Spinetoram	0.02/0.07	3	N/A	ND
Spinosad	0.02 / 0.07	3	N/A	ND
Spiromesifen	0.02/0.05	12	N/A	ND
Spirotetramat	0.02/0.06	13	N/A	ND
Spiroxamine	0.03 / 0.08	≥LOD	N/A	ND
Tebuconazole	0.02/0.07	2	N/A	ND
Thiacloprid	0.03/0.10	≥LOD	N/A	ND
Thiamethoxam	0.03/0.10	4.5	N/A	ND
Trifloxystrobin	0.03/0.08	30	N/A	ND

## Wycotoxin Analysis

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

 $\ensuremath{\textbf{Method:}}\xspace$  QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

#### MYCOTOXIN TEST RESULTS - 06/16/2021 ND

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



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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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

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



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propane	10/20	5000	N/A	ND
Butane	10/50	5000	N/A	ND
Pentane	20/50	5000	N/A	<loq< td=""></loq<>
Hexane	2/5	290	N/A	ND
Heptane	20/60	5000	N/A	ND
Benzene	0.03/0.09	1	N/A	ND
Toluene	7/21	890	N/A	ND
Total Xylenes	50 / 160	2170	N/A	ND
Methanol	50 / 200	3000	N/A	ND
Ethanol	20/50	5000	N/A	ND
Isopropyl Alcohol	10/40	5000	N/A	ND
Acetone	20/50	5000	N/A	ND
Ethyl ether	20/50	5000	N/A	ND
Ethylene Oxide	0.3/0.8	1	N/A	ND
Ethyl acetate	20/60	5000	N/A	ND
Chloroform	0.1/0.2	1	N/A	ND
Methylene chloride	0.3/0.9	1	N/A	ND
Trichloroethylene	0.1/0.3	1	N/A	ND
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND
Acetonitrile	2/7	410	N/A	ND

#### HEAVY METALS TEST RESULTS - 06/15/2021 ND

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)
Arsenic	0.02/0.1	1.5	N/A	ND
Cadmium	0.02/0.05	0.5	N/A	ND
Lead	0.04/0.1	0.5	N/A	ND
Mercury	0.002/0.01	3	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



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## 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<sup>™</sup> Petrifilm<sup>™</sup> and plate counts of microbiological contaminants.

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

### MICROBIOLOGY TEST RESULTS (PCR) - 06/19/2021 ND

COMPOUND	ACTION LIMIT	RESULT
Shiga toxin-producing Escherichia coli	Detect	ND
Salmonella spp.	Detect	ND
Listeria monocytogenes	Detect	ND

#### MICROBIOLOGY TEST RESULTS (PLATING) - 06/19/2021 ND

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

