

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 09/08/2021

SAMPLE NAME: cbdMD PM 30 count Infused, Hemp Infused	1300 mg Sleep Songels	
CULTIVATOR / MANUFACTURER Business Name: License Number: Address:	DISTRIBUTOR / TESTED FOR Business Name: cbdMD License Number: Address:	cbdMD
SAMPLE DETAIL		
Batch Number: 12091W5 Sample ID: 210901R003	Date Collected: 09/01/2021 Date Received: 09/01/2021 Batch Size: Sample Size: 1.0 units Unit Mass: 18.456 grams per Unit Serving Size: 0.6152 grams per Servin	g Scan QR code to verify authenticity of results.
CANNABINOID ANALYSIS - SUMMARY		
Total CBD: 1412.696 mg/unit Sum of Cannabinoids: 1836.372 mg/unit	btal THC/CBD is calculated using the following formulas to ccount the loss of a carboxyl group during the decarboxyl btal THC = Δ 9THC + (THCa (0.877)) um of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + C HCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ 8THC btal Cannabinoids = (Δ 9THC+0.877*THCa) + (CBD+0.877 CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877 CBDV+0.877*CBDVa) + Δ 8THC + CBL + CBN	ation step: IBG + CBGa + + CBL + CBN **CBDa) +
TERPENOID ANALYSIS - SUMMARY		39 TESTED, TOP 3 HIGHLIGHTED
Total Terpenoids: 0.0844%	onene 0.844 mg/g 🛛 🔵 Geranyl Ac	etate <loq <loq<="" humulene="" th="" α="" 🔵="" 🛛=""></loq>
SAFETY ANALYSIS - SUMMARY		
Pesticides: ND	Mycotoxins: ND	Residual Solvents: ND
Heavy Metals: ND	Microbiology (PCR): ND	Microbiology (Plating): ND
or quality assurance purposes. Not a Pre-Harvest Hemp Lab Test the sample included on this report. This report shall not be repr oproval of the laboratory. ample Certification: Action Limits used in this report are a com gencies in all states. Action limits for required tests are either stat	oduced, except in full, without written pilation of guidance from state regulatory	

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)



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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: 1412.696 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1836.372 mg/unit

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

TOTAL CBG: 48.023 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: ND

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 3.211 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 09/04/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±3.6665	76.544	7.6544
CBN	0.001/0.007	±0.7446	20.180	2.0180
CBG	0.002/0.006	±0.1618	2.602	0.2602
CBDV	0.002/0.012	±0.0091	0.174	0.0174
Δ9ΤΗC	0.002/0.014	N/A	ND	ND
∆8THC	0.01/0.02	N/A	ND	ND
THCa	0.001 / 0.005	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
СВС	0.003/0.010	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CANNA	BINOIDS		99.500 mg/g	9.950%

Unit Mass: 18.456 grams per Unit / Serving Size: 0.6152 grams per Serving

Δ9THC per Unit	ND
Δ9THC per Serving	ND
Total THC per Unit	ND
Total THC per Serving	ND
CBD per Unit	1412.696 mg/unit
CBD per Serving	47.090 mg/serving
Total CBD per Unit	1412.696 mg/unit
Total CBD per Serving	47.090 mg/serving
Sum of Cannabinoids per Unit	1836.372 mg/unit
Sum of Cannabinoids per Serving	61.212 mg/serving
Total Cannabinoids per Unit	1836.372 mg/unit
Total Cannabinoids per Serving	61.213 mg/serving



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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.

Geranyl Acetate

A monoterpenoid ester with a fragrance that can be described as floral, fruity, waxy and herbal. Found in lemongrass, palmarosa, geranium, sassafras, carrot, coriander, bitter orange, Camden woollybutt...etc.

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.



TERPENOID TEST RESULTS - 09/06/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Limonene	0.005/0.016	±0.0121	0.844	0.0844
Geranyl Acetate	0.004/0.014	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
α Humulene	0.009/0.029	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></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
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
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
α Cedrene	0.005/0.016	N/A	ND	ND
β Caryophyllene	0.004/0.012	N/A	ND	ND
$trans-\beta$ -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			0.844 mg/g	0.0844%

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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 - 09/05/2021 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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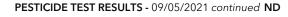


Pesticide Analysis Continued

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

ູ້ 🍹 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 - 09/05/2021 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



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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	ND
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 - 09/05/2021 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



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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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[™] Petrifilm[™] and plate counts of microbiological contaminants.

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

MICROBIOLOGY TEST RESULTS (PCR) - 09/08/2021 ND

COMPOUND	ACTION LIMIT	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 1g	ND
Salmonella spp.	Not Detected in 1g	ND
Listeria monocytogenes	Detect	ND

MICROBIOLOGY TEST RESULTS (PLATING) - 09/08/2021 ND

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

NOTES

Sample Certification: Updated to meet California Code of Regulations Title 16 $\,$

