

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 05/19/2021

SAMPLE NAME: cbdMD Freeze 3 oz 1500 mg Roller

Infused, Non-Inhalable

Infused, Non-Inhalable		
CULTIVATOR / MANUFACTURER Business Name: License Number: Address: SAMPLE DETAIL	DISTRIBUTOR / TESTED FOR Business Name: cbdMD License Number: Address:	
Batch Number: 21090FRE Sample ID: 210513S014	Date Collected: 05/13/2021 Date Received: 05/13/2021	Na Ra and Markan
	Batch Size: Sample Size: 1.0 units Unit Mass: 90 grams per Unit Serving Size: 1 grams per Serving	Scan QR code to verify authenticity of results.
CANNABINOID ANALYSIS - SUMMARY		
Total Cannabinoids: 1763.550 mg/unit	otal THC/CBD is calculated using the following formulas to take into count the loss of a carboxyl group during the decarboxylation step otal THC = Δ 9THC + (THCa (0.877)) into GCannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBG +CV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ 8THC + CBL + C tal Cannabinoids = (Δ 9THC+0.877*THCa) + (CBD+0.877*CBDa) + BG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + BDV+0.877*CBDVa) + Δ 8THC + CBL + CBN	: 5a + BN
TERPENOID ANALYSIS - SUMMARY		39 TESTED, TOP 3 HIGHLIGHTED
Total Terpenoids: 5.6593%	nthol 55.770 mg/g 🛛 🔵 α Bisabolol 0.336 n	ng/g 🥚 γ Terpinene 0.162 mg/g
SAFETY ANALYSIS - SUMMARY		
∆9THC per Unit: ⊘PASS	Pesticides: OPASS	Mycotoxins: PASS
Heavy Metals: PASS	Microbiology (PCR): OPASS	Microbiology (Plating): ND
For quality assurance purposes. Not a Pre-Harvest Hemp Lab Test f to the sample included on this report. This report shall not be repro approval of the laboratory.		
Sample Certification: California Code of Regulations Title 16 Effe Business and Professions Code. Reference: Sections 26100, 26104		
Decision Rule: Statements of conformity (e.g. Pass/Fail) to specific	cations are made in this report without taking	annen la Nuze

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)

verified by: Randi Vuons Date: 05

- UN NGC proved by: Josh Wurzer, President ite: 05/19/2021

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CBDMD FREEZE 3 OZ 1500 MG ROLLER | DATE ISSUED 05/19/2021



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: 1745.460 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1763.550 mg/unit

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

TOTAL CBG: 12.060 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: 2.070 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 05/15/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.9290	19.394	1.9394
CBG	0.002/0.006	±0.0083	0.134	0.0134
CBN	0.001 / 0.007	±0.0016	0.044	0.0044
CBDV	0.002/0.012	±0.0012	0.023	0.0023
Δ9ΤΗC	0.002/0.014	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
∆8THC	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
CBC	0.003/0.010	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CANNA	BINOIDS		19.595 mg/g	1.9595%

Unit Mass: 90 grams per Unit / Serving Size: 1 grams per Serving

Δ9THC per Unit	1120 per-package limit	ND	PASS
Δ9THC per Serving		ND	
Total THC per Unit		ND	
Total THC per Serving		ND	
CBD per Unit		1745.460 mg/unit	
CBD per Serving		19.394 mg/serving	
Total CBD per Unit		1745.460 mg/unit	
Total CBD per Serving		19.394 mg/serving	
Sum of Cannabinoids per Unit		1763.550 mg/unit	
Sum of Cannabinoids per Serving		19.595 mg/serving	
Total Cannabinoids per Unit		1763.550 mg/unit	
Total Cannabinoids per Serving		19.595 mg/serving	



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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD FREEZE 3 OZ 1500 MG ROLLER | DATE ISSUED 05/19/2021

🔗 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.

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.

γTerpinene

One of four isomers of the monoterpene Terpinene. It has a fragrance that can be described as sweet, spicy, tropical, woody and oily with a hint of citrus. Found in marjoram, cardamom, tea tree, bible hyssop...etc.



TERPENOID TEST RESULTS - 05/17/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Menthol	0.008/0.025	±2.2308	55.770	5.5770
α Bisabolol	0.008/0.026	±0.0179	0.336	0.0336
γTerpinene	0.006 / 0.018	±0.0028	0.162	0.0162
(-)-Isopulegol	0.005/0.016	±0.0044	0.109	0.0109
α Terpinene	0.005/0.017	±0.0010	0.066	0.0066
p-Cymene	0.005/0.016	±0.0014	0.052	0.0052
Terpinolene	0.008/0.026	±0.0006	0.031	0.0031
α Pinene	0.005/0.017	±0.0002	0.024	0.0024
Eucalyptol	0.006/0.018	±0.0006	0.022	0.0022
Limonene	0.005/0.016	±0.0003	0.021	0.0021
β Pinene	0.004/0.014	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<>
R-(+)-Pulegone	0.003/0.011	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<>
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
Sabinene	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
Ocimene	0.011/0.038	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009/0.028	N/A	ND	ND
Linalool	0.009/0.032	N/A	ND	ND
Fenchol	0.010/0.034	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
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
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
$trans$ - β -Farnesene	0.008/0.025	N/A	ND	ND
α Humulene	0.009/0.029	N/A	ND	ND
Valencene	0.009/0.030	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
TOTAL TERPENOIDS			56.593 mg/g	5.6593%

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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD FREEZE 3 OZ 1500 MG ROLLER | DATE ISSUED 05/19/2021

Pesticide Analysis

CATEGORY 1 AND 2 PESTICIDES

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

CATEGORY 1 PESTICIDE TEST RESULTS - 05/17/2021 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03/0.08	≥LOD	N/A	ND	PASS
Carbofuran	0.02/0.05	≥LOD	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
Coumaphos	0.02/0.07	≥LOD	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
Dimethoate	0.03/0.08	≥LOD	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
Fenoxycarb	0.03/0.08	≥LOD	N/A	ND	PASS
Fipronil	0.03/0.08	≥LOD	N/A	ND	PASS
Imazalil	0.02/0.06	≥LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥LOD	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
Paclobutrazol	0.02 / 0.05	≥LOD	N/A	ND	PASS
Propoxur	0.03/0.09	≥LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥LOD	N/A	ND	PASS
Thiacloprid	0.03/0.10	≥LOD	N/A	ND	PASS

CATEGORY 2 PESTICIDE TEST RESULTS - 05/17/2021 OPASS

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
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
Chlorantraniliprole	0.04/0.12	40	N/A	ND	PASS
Clofentezine	0.03/0.09	0.5	N/A	ND	PASS
Cyfluthrin	0.12/0.38	1	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Diazinon	0.02/0.05	0.2	N/A	ND	PASS
Dimethomorph	0.03/0.09	20	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
Fenpyroximate	0.02/0.06	2	N/A	ND	PASS

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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD FREEZE 3 OZ 1500 MG ROLLER | DATE ISSUED 05/19/2021



Pesticide Analysis Continued

CATEGORY 1 AND 2 PESTICIDES

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

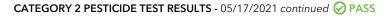
*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
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
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
Methomyl	0.03/0.10	0.1	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
Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND	PASS
Permethrin	0.04/0.12	20	N/A	ND	PASS
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
Pyrethrins	0.04/0.12	1	N/A	ND	PASS
Pyridaben	0.02/0.07	3	N/A	ND	PASS
Spinetoram	0.02/0.07	3	N/A	ND	PASS
Spinosad	0.02/0.07	3	N/A	ND	PASS
Spiromesifen	0.02/0.05	12	N/A	ND	PASS
Spirotetramat	0.02/0.06	13	N/A	ND	PASS
Tebuconazole	0.02/0.07	2	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 TEST RESULTS - 05/17/2021 @ PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0/6.0		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	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS



(HPLC-MS).

LC-MS

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Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

CBDMD FREEZE 3 OZ 1500 MG ROLLER | DATE ISSUED 05/19/2021



Heavy Metals Analysis

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

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



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[™]

HEAVY METALS TEST RESULTS - 05/16/2021 🔗 PASS

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

MICROBIOLOGY TEST RESULTS (PCR) - 05/19/2021 OPASS

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

MICROBIOLOGY TEST RESULTS (PLATING) - 05/19/2021 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND

