

Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 10/21/2021

SAMPLE NAME: cbdMD Recover 4 oz 1500 mg Tub

Infused, Hemp Topical

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

SAMPLE DETAIL

Batch Number: 21267REC Sample ID: 211015P004

DISTRIBUTOR / TESTED FOR

Business Name: cbdMD License Number:

Address:

Date Collected: 10/15/2021 Date Received: 10/15/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 120 grams per Unit

Serving Size:





Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC/CBD is calculated using the following formulas to take into **Total THC: Not Detected** account the loss of a carboxyl group during the decarboxylation step:

Total THC = Δ 9THC + (THCa (0.877)) Total CBD: 1863.120 mg/unit Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 1878.000 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) + Total Cannabinoids: 1878.000 mg/unit

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

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.3807%

Menthol 0.901 mg/g

Limonene 0.569 mg/g

 α Pinene 0.536 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: PASS Mycotoxins: PASS Residual Solvents: PASS

Heavy Metals: PASS Microbiology (PCR): 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)

2C verified by: Kevin Flores ate: 10/21/2021

pproved by: Josh Wurzer, President ate: 10/21/2021





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CBDMD RECOVER 4 OZ 1500 MG TUB | DATE ISSUED 10/21/2021





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 (Δ9THC+0.877*THCa)

TOTAL CBD: 1863.120 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1878.000 mg/unit

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

TOTAL CBG: 8.760 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: <LOQ
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 2.400 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/20/2021

	COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT mg/g	RESULT (mg/g)	RESULT (%)
	CBD	0.004 / 0.011	±0.7437	15.526	1.5526
	CBG	0.002 / 0.006	±0.0045	0.073	0.0073
	CBN	0.001 / 0.007	±0.0011	0.031	0.0031
	CBDV	0.002/0.012	±0.0010	0.020	0.0020
	CBCa	0.001 / 0.015	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
	Δ9ΤΗС	0.002 / 0.014	N/A	ND	ND
	Δ8ΤΗC	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
nit-	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
_	SUM OF CANNA	BINOIDS		15.650 mg/g	1.565%

Unit Mass: 120 grams per Unit

Δ9THC per Unit	ND
Total THC per Unit	ND
CBD per Unit	1863.120 mg/unit
Total CBD per Unit	1863.120 mg/unit
Sum of Cannabinoids per Unit	1878.000 mg/unit
Total Cannabinoids per Unit	1878.000 mg/unit





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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.



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.



α 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.

TERPENOID TEST RESULTS - 10/18/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT mg/g	RESULT (mg/g)	RESULT (%)
Menthol	0.008 / 0.025	±0.0360	0.901	0.0901
Limonene	0.005 / 0.016	±0.0081	0.569	0.0569
α Pinene	0.005 / 0.017	±0.0046	0.536	0.0536
Camphor	0.006 / 0.019	±0.0164	0.461	0.0461
Eucalyptol	0.006 / 0.018	±0.0089	0.351	0.0351
α Bisabolol	0.008 / 0.026	±0.0108	0.203	0.0203
Camphene	0.005 / 0.015	±0.0020	0.172	0.0172
Citronellol	0.003 / 0.010	±0.0051	0.105	0.0105
βPinene	0.004 / 0.014	±0.0011	0.098	0.0098
Linalool	0.009 / 0.032	±0.0034	0.089	0.0089
Terpineol	0.016 / 0.055	±0.0041	0.066	0.0066
p-Cymene	0.005 / 0.016	±0.0011	0.042	0.0042
Geraniol	0.002 / 0.007	±0.0018	0.041	0.0041
Myrcene	0.008 / 0.025	±0.0005	0.038	0.0038
3 Carene	0.005 / 0.018	±0.0005	0.034	0.0034
β Caryophyllene	0.004 / 0.012	±0.0010	0.029	0.0029
(-)-Isopulegol	0.005 / 0.016	±0.0011	0.027	0.0027
R-(+)-Pulegone	0.003 / 0.011	±0.0009	0.023	0.0023
Isoborneol	0.004 / 0.012	±0.0009	0.022	0.0022
Nerol	0.003 / 0.011	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Sabinene	0.004 / 0.014	N/A	ND	ND
α Phellandrene	0.006 / 0.020	N/A	ND	ND
αTerpinene	0.005 / 0.017	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
Borneol	0.005 / 0.016	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
α Humulene	0.009/0.029	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
TOTAL TERPENOIDS			3.807 mg/g	0.3807%













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

Exclusions¹ see last page

Exclusions² see last page



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT 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
Imazalil	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



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 - 10/17/2021 continued **⊘** PASS

	COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT 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
	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
	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
	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
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 LC-MS

Exclusions³ see last page

MYCOTOXIN TEST RESULTS - 10/17/2021 **⊘** PASS

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







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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

Exclusions⁴ see last page

RESIDUAL SOLVENTS TEST RESULTS - 10/18/2021 **⊘** PASS

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 Benzene 0.03/0.09 1 N/A ND PASS 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 3000 N/A ND PASS Ethanol 10/40 N/A ND PASS Ethyl ether 20/50 5000 N/A ND PASS Ethyl ether 20/50 5000 N/A ND PASS Ethyl acetate 20/60 5000		COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT μg/g	RESULT (µg/g)	RESULT
Pentane 20/50 5000 N/A ND PASS Hexane 2/5 290 N/A ND PASS Heptane 20/60 5000 N/A ND PASS Benzene 0.03/0.09 1 N/A ND PASS 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 N/A ND ND Isopropyl Alcohol 10/40 N/A ND NA 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		Propane	10/20	5000	N/A	ND	PASS
Hexane 2/5 290 N/A ND PASS Heptane 20/60 5000 N/A ND PASS Benzene 0.03/0.09 1 N/A ND PASS 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 N/A ND ND Isopropyl Alcohol 10/40 N/A ND PASS Ethyl ether 20/50 5000 N/A ND PASS Ethyl ether 20/50 5000 N/A ND PASS Ethyl excetate 20/60 5000 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		Butane	10/50	5000	N/A	ND	PASS
Heptane 20 / 60 5000 N/A ND PASS Benzene 0.03 / 0.09 1 N/A ND PASS 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 N/A ND ND Isopropyl Alcohol 10 / 40 N/A ND NA 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		Pentane	20/50	5000	N/A	ND	PASS
Benzene 0.03/0.09 1 N/A ND PASS 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 N/A ND ND Isopropyl Alcohol 10/40 N/A ND PASS Ethyl ether 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 1,2-Dichloroethane <t< th=""><th></th><th>Hexane</th><th>2/5</th><th>290</th><th>N/A</th><th>ND</th><th>PASS</th></t<>		Hexane	2/5	290	N/A	ND	PASS
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 N/A ND ND Isopropyl Alcohol 10/40 N/A ND ND 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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Heptane	20/60	5000	N/A	ND	PASS
Total Xylenes 50 / 160 2170 N/A ND PASS Methanol 50 / 200 3000 N/A ND PASS Ethanol 20 / 50 N/A ND ND Isopropyl Alcohol 10 / 40 N/A ND ND 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 1,2-Dichloroethane 0.05 / 0.1 1 N/A ND PASS		Benzene	0.03 / 0.09	1	N/A	ND	PASS
Methanol 50/200 3000 N/A ND PASS Ethanol 20/50 N/A ND Isopropyl Alcohol 10/40 N/A ND 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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Toluene	7/21	890	N/A	ND	PASS
Ethanol 20/50 N/A ND Isopropyl Alcohol 10/40 N/A ND 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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Total Xylenes	50 / 160	2170	N/A	ND	PASS
Isopropyl Alcohol 10/40 N/A ND 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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Methanol	50/200	3000	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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Ethanol	20/50		N/A	ND	
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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS	1	Isopropyl Alcohol	10 / 40		N/A	ND	
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 1,2-Dichloroethane 0.05 / 0.1 1 N/A ND PASS		Acetone	20/50	5000	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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Ethyl ether	20/50	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 1,2-Dichloroethane 0.05/0.1 1 N/A ND PASS		Ethylene Oxide	0.3 / 0.8	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 1,2-Dichloroethane 0.05 / 0.1 1 N/A ND PASS		Ethyl acetate	20/60	5000	N/A	ND	PASS
Trichloroethylene 0.1 / 0.3 1 N/A ND PASS 1,2-Dichloroethane 0.05 / 0.1 1 N/A ND PASS		Chloroform	0.1/0.2	1	N/A	ND	PASS
1,2-Dichloroethane 0.05 / 0.1 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
Acetonitrile 2 / 7 410 ±0.3 8 PASS		1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
		Acetonitrile	2/7	410	±0.3	8	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 - 10/17/2021 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT 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

CBDMD RECOVER 4 OZ 1500 MG TUB | DATE ISSUED 10/21/2021



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 $3M^{^{\text{TM}}}$ Petrifilm $^{^{\text{TM}}}$ and plate counts of microbiological contaminants.

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

MICROBIOLOGY TEST RESULTS (PCR) - 10/19/2021 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	Not Detected in 1g	ND	PASS

MICROBIOLOGY TEST RESULTS (PLATING) - 10/19/2021 PASS

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

NOTES

COA amended, update to results.

- 1. Exclusions: QSP 1213 Sample Certification: California Code of Regulation Title 4 Division 19
- 2. Exclusions: QSP 1212 Sample Certification: California Code of Regulation Title 4 Division 19
- 3. Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19 : Ochratoxin A Action Limit: 20 ug/kg
- 4. Exclusions: Sample Certification: California Code of Regulation Title 4 Division 19

