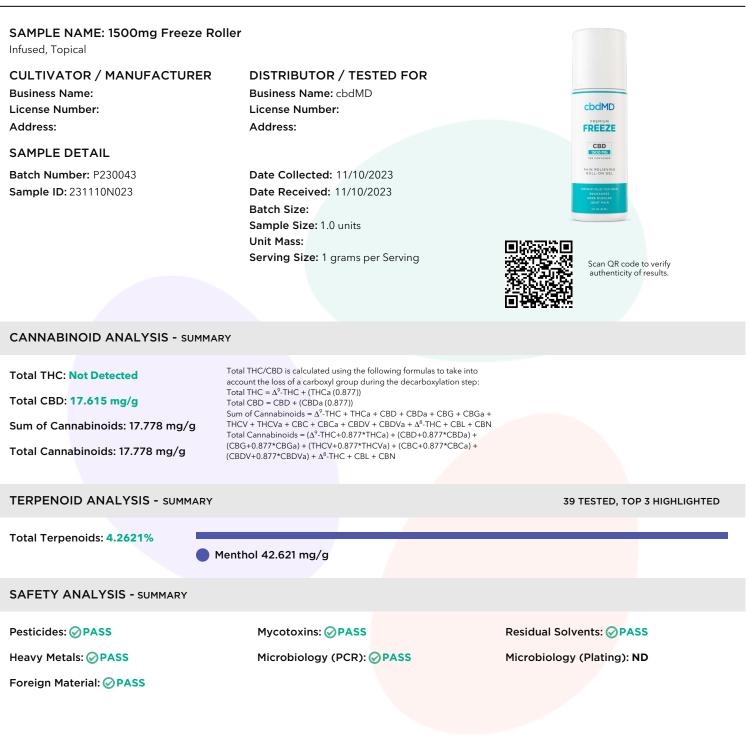


# Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 11/16/2023



For quality assurance purposes. Not a Regulatory 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 approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

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)

LQC verified by: Josh Antunovich Job Title: Laboratory Director Date: 11/16/2023

Approved by: Josh Wurzer Job Title: Chief Compliance Officer Date: 11/16/2023

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1500MG FREEZE ROLLER | DATE ISSUED 11/16/2023

# Cannabinoid Analysis

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 ( $\Delta^9$ -THC+0.877\*THCa)

## TOTAL CBD: 17.615 mg/g

Total CBD (CBD+0.877\*CBDa)

#### TOTAL CANNABINOIDS: 17.778 mg/g

 $\begin{array}{l} \mbox{Total Cannabinoids} (\mbox{Total THC}) + (\mbox{Total CBD}) + \\ (\mbox{Total CBG}) + (\mbox{Total THCV}) + (\mbox{Total CBC}) + \\ (\mbox{Total CBDV}) + \Delta^8 \mbox{-THC} + \mbox{CBL} + \mbox{CBN} \\ \end{array}$ 

## TOTAL CBG: 0.058 mg/g

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: 0.072 mg/g

Total CBDV (CBDV+0.877\*CBDVa)

# Terpenoid Analysis

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

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

#### CANNABINOID TEST RESULTS - 11/13/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004/0.011	±0.6570	17.615	1.7615
CBDV	0.002/0.012	±0.0029	0.072	0.0072
CBG	0.002/0.006	±0.0028	0.058	0.0058
CBN	0.001/0.007	±0.0009	0.033	0.0033
∆ <sup>9</sup> -THC	0.002/0.014	N/A	ND	ND
∆ <sup>8</sup> -THC	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
CBC	0.003/0.010	N/A	ND	ND
CBCa	0.001/0.015	N/A	ND	ND
SUM OF CANNA	BINOIDS		17.778 mg/g	1.7778%

#### Serving Size: 1 grams per Serving

$\Delta^9$ -THC per Serving	ND
Total THC per Serving	ND
CBD per Serving	17.615 mg/serving
Total CBD per Serving	17.615 mg/serving
Sum of Cannabinoids per Serving	17.778 mg/serving
Total Cannabinoids per Serving	17.778 mg/serving

## TERPENOID TEST RESULTS - 11/16/2023

	LOD/LOQ	MEASUREMENT	RESULT	RESULT
COMPOUND	(mg/g)	UNCERTAINTY (mg/g)	(mg/g)	(%)
Menthol	0.008/0.025	±1.3298	42.621	4.2621
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	0.00 <mark>8/0.025</mark>	N/A	ND	ND
$\alpha$ -Phellandrene	0.006 / 0.020	N/A	ND	ND
$\Delta^3$ -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
Limonene	0.005/0.016	N/A	ND	ND

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# **Hemp Quality Assurance Testing**

CERTIFICATE OF ANALYSIS 1500MG FREEZE ROLLER | DATE ISSUED 11/16/2023





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.

n	
ľ	Pesticide A

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

## TERPENOID TEST RESULTS - 11/16/2023 continued

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Eucalyptol	0.006/0.018	N/A	ND	ND
β-Ocimene	0.006/0.020	N/A	ND	ND
$\gamma$ -Terpinene	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
Terpineol	0.009/0.031	N/A	ND	ND
Nerol	0.003/0.011	N/A	ND	ND
Citronellol	0.003/0.010	N/A	ND	ND
Pulegone	0.003/0.011	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
β-Caryophyllene	0.004/0.012	N/A	ND	ND
$trans{-}\beta{-}Farnesene$	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	0.006 / 0. <mark>019</mark>	N/A	ND	ND
Caryophyllene Oxide	0.010 <mark>/0.033</mark>	N/A	ND	ND
Guaiol	0.00 <mark>9/0.030</mark>	N/A	ND	ND
Cedrol	0. <mark>008 / 0.027</mark>	N/A	ND	ND
α-Bisabolol	0.008 / 0.026	N/A	ND	ND
TOTAL TERPENOIDS			42.621 mg/g	4.2621%

### PESTICIDE TEST RESULTS - 11/13/2023 O 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

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# Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS 1500MG FREEZE ROLLER | DATE ISSUED 11/16/2023



## Pesticide Analysis Continued

## PESTICIDE TEST RESULTS - 11/13/2023 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
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
Diazinon	0.02/0.05	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.03/0.09	≥LOD	N/A	ND	PASS
Dimethoate	0.03/0.08	≥LOD	N/A	ND	PASS
Dimethomorph	0.03/0.09	20	N/A	ND	PASS
Ethoprophos	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
Methomyl	0.03/0.10	0.1	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
Parathion-methyl	0.03/0.10	≥LOD	N/A	ND	PASS

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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

1500MG FREEZE ROLLER | DATE ISSUED 11/16/2023



## Pesticide Analysis Continued

## PESTICIDE TEST RESULTS - 11/13/2023 continued 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
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
Piperonyl Butoxide	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
Spirotetramat	0.02/0.06	13	N/A	ND	PASS
Spiroxamine	0.03/0.08	≥LOD	N/A	ND	PASS
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

# Wycotoxin 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 - 11/13/2023 OPASS

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. <mark>6</mark>		N/A	ND	
Aflatoxin G1	1.0 <mark>/ 3.1</mark>		N/A	ND	
Aflatoxin G2	1. <mark>2 / 3.5</mark>		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

# तुह् 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 - 11/15/2023 OPASS

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
n-Butane	10/50	5000	N/A	ND	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
n-Hexane	2/5	290	N/A	ND	PASS
n-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

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# Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS



## 

## RESIDUAL SOLVENTS TEST RESULTS - 11/15/2023 continued

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Total Xylenes	50/160	2170	N/A	ND	PASS
Methanol	50/200	3000	N/A	ND	PASS
Ethanol	20/50		N/A	ND	
2-Propanol (Isopropyl Alcohol)	10/40		±>189.6	>6995	
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
Dichloromethane (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
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



# 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

## HEAVY METALS TEST RESULTS - 11/12/2023 OPASS

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

## MICROBIOLOGY TEST RESULTS (PCR) - 11/14/2023 O 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		ND	



## **Hemp Quality Assurance Testing** CERTIFICATE OF ANALYSIS

1500MG FREEZE ROLLER | DATE ISSUED 11/16/2023



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>

# ⇔<sup>\*</sup>₀. Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

# Microbiology Analysis Continued MICROBIOLOGY TEST RESULTS (PLATING) - 11/14/2023 ND

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

## FOREIGN MATERIAL TEST RESULTS - 11/11/2023 O PASS

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	PASS
Total Sample Area Covered by Mold	>25%	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	PASS
Insect Fragment Count	> 1 per 3 grams	PASS
Hair Count	> 1 per 3 grams	PASS
Mammalian Excreta Count	> 1 per 3 grams	PASS