

**SAMPLE DETAILS**
**SAMPLE NAME: TFR-04-1500**

Infused, Topical

**CULTIVATOR / MANUFACTURER**

Business Name:

License Number:

Address:

**DISTRIBUTOR / TESTED FOR**

Business Name: cbdMD

License Number:

Address:

**SAMPLE DETAIL**

Batch Number: 5431L1

Date Collected: 03/03/2025

Sample ID: 250303M012

Date Received: 03/03/2025



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 THC: Not Detected**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

 Total THC =  $\Delta^9\text{-THC} + (\text{THCa} (0.877))$ 

Total CBD = CBD + (CBDa (0.877))

 Sum of Cannabinoids =  $\Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVA} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$ 

 Total Cannabinoids =  $(\Delta^9\text{-THC} + 0.877 \times \text{THCa}) + (\text{CBD} + 0.877 \times \text{CBDa}) + (\text{CBG} + 0.877 \times \text{CBGa}) + (\text{THCV} + 0.877 \times \text{THCVA}) + (\text{CBC} + 0.877 \times \text{CBCa}) + (\text{CBDV} + 0.877 \times \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$ 
**Total CBD: 2414.880 mg/unit**
**Sum of Cannabinoids: 2454.390 mg/unit**
**Total Cannabinoids: 2454.390 mg/unit**
**TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids: 9.3242%**

● Menthol 90.805 mg/g   ● Camphor 2.162 mg/g   ● Isopulegol 0.123 mg/g

**SAFETY ANALYSIS - SUMMARY**
 **$\Delta^9\text{-THC}$  per Unit: PASS**

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),  $\mu\text{g/g} = \text{ppm}$ ,  $\mu\text{g/kg} = \text{ppb}$

LQC verified by: Yasmin Kakkar  
 Job Title: Senior Laboratory Analyst  
 Date: 03/05/2025

Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 03/05/2025



DATE ISSUED 03/05/2025

## 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: 2414.880 mg/unit

Total CBD (CBD+0.877\*CBDa)

### TOTAL CANNABINOIDs: 2454.390 mg/unit

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

### TOTAL CBG: 21.150 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: 10.080 mg/unit

Total CBDV (CBDV+0.877\*CBDA)

### CANNABINOID TEST RESULTS - 03/04/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	$\pm 1.0008$	26.832	2.6832
CBG	0.002 / 0.006	$\pm 0.0114$	0.235	0.0235
CBDV	0.002 / 0.012	$\pm 0.0046$	0.112	0.0112
CBN	0.001 / 0.007	$\pm 0.0026$	0.092	0.0092
$\Delta^9$ -THC	0.002 / 0.014	N/A	ND	ND
$\Delta^8$ -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
<b>SUM OF CANNABINOIDs</b>			<b>27.271 mg/g</b>	<b>2.7271%</b>

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

$\Delta^9$ -THC per Unit	1100 per-package limit	ND	PASS
$\Delta^9$ -THC per Serving		ND	
Total THC per Unit		ND	
Total THC per Serving		ND	
CBD per Unit	2414.880 mg/unit		
CBD per Serving	26.832 mg/serving		
Total CBD per Unit	2414.880 mg/unit		
Total CBD per Serving	26.832 mg/serving		
Sum of Cannabinoids per Unit	2454.390 mg/unit		
Sum of Cannabinoids per Serving	27.271 mg/serving		
Total Cannabinoids per Unit	2454.390 mg/unit		
Total Cannabinoids per Serving	27.271 mg/serving		



DATE ISSUED 03/05/2025



## Terpenoid Analysis

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

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

**1 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.

**2 Camphor**

A monoterpenoid ketone with a pungent fragrance that is as reminiscent of mothballs. It is commonly derived from *Cinnamomum camphora*, from which it lends its name. It is a constituent of turpentine and has been used by certain cultures as an embalming fluid due to its antimicrobial effects. Found in camphor laurel, rosemary, East African camphorwood, goldenasters, coriander, feverfew, tarragon, nutmeg, sweet wormwood, yerba buena, mountain mint, hyssop, forskohlii, tansy, thyme, turmeric...etc.

**3 Isopulegol**

A monoterpenoid with a fragrance that can be described as woody and minty. It is also a constituent of toxic secretions of exploding ants. Found in eucalyptus, rosemary, citrus, lemon-verbena, micromeria, lemon balm...etc.

## TERPENOID TEST RESULTS - 03/05/2025

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Menthol	0.008 / 0.025	±2.8331	90.805	9.0805
Camphor	0.006 / 0.036	±0.0599	2.162	0.2162
Isopulegol	0.005 / 0.036	±0.0039	0.123	0.0123
Borneol	0.005 / 0.016	±0.0040	0.122	0.0122
Pulegone	0.003 / 0.011	±0.0009	0.030	0.0030
α-Bisabolol	0.008 / 0.026	N/A	ND	ND
α-Cedrene	0.005 / 0.016	N/A	ND	ND
α-Humulene	0.009 / 0.180	N/A	ND	ND
α-Phellandrene	0.006 / 0.036	N/A	ND	ND
α-Pinene	0.005 / 0.036	N/A	ND	ND
α-Terpinene	0.005 / 0.017	N/A	ND	ND
β-Caryophyllene	0.004 / 0.012	N/A	ND	ND
β-Ocimene	0.006 / 0.025	N/A	ND	ND
β-Pinene	0.004 / 0.014	N/A	ND	ND
Camphene	0.005 / 0.015	N/A	ND	ND
Caryophyllene Oxide	0.010 / 0.033	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
Citronellol	0.003 / 0.036	N/A	ND	ND
Δ <sup>3</sup> -Carene	0.005 / 0.018	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
Fenchol	0.010 / 0.036	N/A	ND	ND
Fenchone	0.009 / 0.036	N/A	ND	ND
γ-Terpinene	0.006 / 0.018	N/A	ND	ND
Geraniol	0.002 / 0.036	N/A	ND	ND
Geranyl Acetate	0.004 / 0.036	N/A	ND	ND
Guaiol	0.009 / 0.030	N/A	ND	ND
Isoborneol	0.004 / 0.012	N/A	ND	ND
Limonene	0.005 / 0.036	N/A	ND	ND
Linalool	0.009 / 0.036	N/A	ND	ND
Myrcene	0.008 / 0.025	N/A	ND	ND
Nerol	0.003 / 0.036	N/A	ND	ND
Nerolidol	0.006 / 0.021	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.036	N/A	ND	ND
Terpineol	0.009 / 0.031	N/A	ND	ND
Terpinolene	0.008 / 0.036	N/A	ND	ND
trans-β-Farnesene	0.008 / 0.025	N/A	ND	ND
Valencene	0.009 / 0.180	N/A	ND	ND
<b>TOTAL TERPENOIDS</b>			<b>93.242 mg/g</b>	<b>9.3242%</b>

**NOTES**

Farm Bill Compliant: Product contains a total Δ9-tetrahydrocannabinol content that does not exceed 0.3%  
Sample unit mass provided by client.

**SAMPLE DETAILS****SAMPLE NAME: 1500Mg Freeze Roller**

Infused, Topical

**CULTIVATOR / MANUFACTURER**

Business Name:

License Number:

Address:

**DISTRIBUTOR / TESTED FOR**

Business Name: cbdMD

License Number:

Address:

**SAMPLE DETAIL**

Batch Number: 5431L1

Sample ID: 250401L017

Date Collected: 04/01/2025

Date Received: 04/01/2025

Batch Size:

Sample Size: 1.0 units

Unit Mass: 90 grams per Unit

Serving Size: 1 grams per Serving

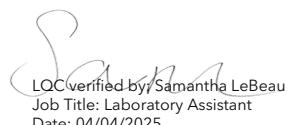


Scan QR code to verify authenticity of results.

**SAFETY ANALYSIS - SUMMARY**Pesticides: **PASS**Mycotoxins: **PASS**Residual Solvents: **PASS**Heavy Metals: **PASS**Microbiology (PCR): **PASS**Microbiology (Plating): **ND**

These results relate only to the sample included on this report.

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LQC verified by: **Samantha LeBeau**  
Job Title: Laboratory Assistant  
Date: 04/04/2025  
Approved by: **Josh Wurzer**  
Job Title: Chief Compliance Officer  
Date: 04/04/2025



DATE ISSUED 04/04/2025



## 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 - 04/02/2025 PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	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	$\geq$ 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	$\geq$ LOD	N/A	ND	PASS
Chlorantraniliprole	0.04 / 0.12	40	N/A	ND	PASS
Chlordane*	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.5	N/A	ND	PASS
Coumaphos	0.02 / 0.07	$\geq$ 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	$\geq$ LOD	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	20	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	$\geq$ 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
Fenoxy carb	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	2	N/A	ND	PASS
Fipronil	0.03 / 0.08	$\geq$ 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	$\geq$ 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
Metalauxyl	0.02 / 0.07	15	N/A	ND	PASS
Methiocarb	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS

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## Pesticide Analysis *Continued*

**PESTICIDE TEST RESULTS - 04/02/2025 ✓ PASS**

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	RESULT
Methomyl	0.03 / 0.10	0.1	N/A	ND	PASS
Mevinphos	0.03 / 0.09	$\geq$ 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	$\geq$ LOD	N/A	ND	PASS
Parathion-methyl	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Pentachloronitrobenzene (Quintozene)*	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	$\geq$ 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	$\geq$ LOD	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	2	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	$\geq$ 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

**MYCOTOXIN TEST RESULTS - 04/02/2025 ✓ PASS**

COMPOUND	LOD/LOQ ( $\mu\text{g/kg}$ )	ACTION LIMIT ( $\mu\text{g/kg}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/kg}$ )	RESULT ( $\mu\text{g/kg}$ )	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	
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS
Total Aflatoxin		20		ND	PASS



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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

### RESIDUAL SOLVENTS TEST RESULTS - 04/02/2025 ✓ PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	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
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		$\pm 567.1$	20928	
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

### HEAVY METALS TEST RESULTS - 04/03/2025 ✓ PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	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 Analysis

### PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

**Method:** QSP 1221 - Analysis of Microbiological Contaminants

### MICROBIOLOGY TEST RESULTS (PCR) - 04/04/2025 ✓ PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
<i>Listeria monocytogenes</i>		ND	
<i>Salmonella</i> spp.	Not Detected in 1g	ND	PASS
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS



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## Microbiology Analysis *Continued*

### MICROBIOLOGY TEST RESULTS (PLATING) - 04/04/2025 ND

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

#### NOTES

Sample serving mass provided by client. Sample unit mass provided by client.

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

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