

DATE ISSUED 10/03/2020

### SAMPLE NAME: cbdMD Relieve 2.5 oz 3000 mg Roll-on FRM#IS0007-CB3 Infused, Non-Inhalable

### CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

### DISTRIBUTOR

Business Name: cbdMD License Number: Address:

#### SAMPLE DETAIL

Batch Number: 2009-15 Sample ID: 200930S009

Date Collected: 09/30/2020 Date Received: 09/30/2020 Batch Size: Sample Size: 1.0 Unit(s) Unit Mass: 74 Grams per Unit Serving Size:



Heavy Metals: **OPASS** 

Microbial Impurities (PCR): PASS

Microbial Impurities (Plating): ND

Scan QR code to verify authenticity of results.

**BELIEVE** 

### 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:	Moisture: NT
Total CBD: 3475.558 mg/unit	Total THC = $\triangle$ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = $\triangle$ 9THC + THCa + CBD + CBDa + CBG + CBGa +	Density: NT
Sum of Cannabinoids: 3502.864 mg/un	$\label{eq:theta} \begin{array}{l} \textbf{t}^{THCV} + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta 8THC + CBL + CBN\\ Total Cannabinoids = (\Delta 9THC+0.877*THCa) + (CBD+0.877*CBDa) + \end{array}$	Viscosity: NT
Total Cannabinoids: 3502.864 mg/unit	(CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ8THC + CBL + CBN	

Pesticides: **PASS** 

Mycotoxins: **PASS** 

Residual Solvents: NT

### SAFETY ANALYSIS - SUMMARY

**∆9THC per Unit: ⊘PASS** 

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

**TERPENOID ANALYSIS - SUMMARY** 

35 TESTED, TOP 3 HIGHLIGHTED

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 approval of the laboratory.

Sample Certification: California Code of Regulations Title 16 Effect Date January 16, 2019. Authority: Section 26013, 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)

0 erified by: Maria Garcia 10/03/2020 100 Date:

peroved by: Josh Wurzer, President ate: 10/03/2020

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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: 3475.558 mg/unit

Total CBD (CBD+0.877\*CBDa)

TOTAL CANNABINOIDS: 3502.864 mg/uni

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

### TOTAL CBG: 5.328 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: 14.652 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

### CANNABINOID TEST RESULTS - 10/02/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004/0.011	±2.2497	46.967	4.6967
CBDV	0.002/0.007	±0.0104	0.198	0.0198
CBN	0.001 / 0.004	±0.0037	0.099	0.0099
CBG	0.002/0.005	±0.0045	0.072	0.0072
CBC	0.003/0.010	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Δ9ΤΗC	0.002 / 0.005	N/A	ND	ND
∆8THC	0.01/0.02	N/A	ND	ND
THCa	0.001/0.002	N/A	ND	ND
t <sub>тнсv</sub>	0.002 / 0.008	N/A	ND	ND
THCVa	0.002/0.005	N/A	ND	ND
CBDa	0.001/0.003	N/A	ND	ND
CBDVa	0.001 / 0.003	N/A	ND	ND
CBGa	0.002 / 0.006	N/A	ND	ND
CBL	0.003 / 0.008	N/A	ND	ND
CBCa	0.001/0.004	N/A	ND	ND
SUM OF CANNA	ABINOIDS		47.336 mg/g	4.7336%

#### Unit Mass: 74 Grams per Unit

Δ9THC per Unit	1100 per-package limit	ND	PASS
Total THC per Unit		ND	
CBD per Unit		3475.558 mg/unit	
Total CBD per Unit		3475.558 mg/unit	
Sum of Cannabinoids per Unit		3502.864 mg/unit	
Total Cannabinoids per Unit		3502.864 mg/unit	

MOISTURE TEST RESULT DENSITY TEST RESULT

#### ESULT VISCOSITY TEST RESULT

Not Tested

Not Tested

Not Tested



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## 🔗 Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID). Terpenes are the aromatic compounds that endow cannabis with their unique scent and effect. Following are the primary terpenes detected.

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

#### TERPENOID TEST RESULTS - 10/03/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
$\alpha$ Pinene	0.03/0.09	N/A	ND	ND
Camphene	0.04/0.11	N/A	ND	ND
Sabinene	0.04/0.11	N/A	ND	ND
$\beta$ Pinene	0.04/0.11	N/A	ND	ND
Myrcene	0.04/0.11	N/A	ND	ND
$\alpha$ Phellandrene	0.05 / 0.1	N/A	ND	ND
3 Carene	0.04 / 0.1	N/A	ND	ND
$\alpha$ Terpinene	0.04/0.1	N/A	ND	ND
Limonene	0.02/0.05	N/A	ND	ND
Eucalyptol	0.03/0.08	N/A	ND	ND
Ocimene	0.03/0.09	N/A	ND	ND
γTerpinene	0.04 / 0.1	N/A	ND	ND
Sabinene Hydrate	0.02/0.07	N/A	ND	ND
Fenchone	0.04/0.12	N/A	ND	ND
Terpinolene	0.03/0.09	N/A	ND	ND
Linalool	0.03/0.08	N/A	ND	ND
Fenchol	0.03/0.09	N/A	ND	ND
(-)-Isopulegol	0.02/0.05	N/A	ND	ND
Camphor	0.1/0.2	N/A	ND	ND
Isoborneol	0.04/0.1	N/A	ND	ND
Borneol	0.1/0.2	N/A	ND	ND
Menthol	0.03/0.09	N/A	ND	ND
Terpineol	0.02/0.07	N/A	ND	ND
Nerol	0.03/0.09	N/A	ND	ND
R-(+)-Pulegone	0.03/0.09	N/A	ND	ND
Geraniol	0.02/0.07	N/A	ND	ND
Geranyl Acetate	0.02/0.06	N/A	ND	ND
$\alpha$ Cedrene	0.02/0.07	N/A	ND	ND
$\beta$ Caryophyllene	0.02/0.07	N/A	ND	ND
$\alpha$ Humulene	0.02/0.05	N/A	ND	ND
Valencene	0.01/0.03	N/A	ND	ND
Nerolidol	0.3/0.8	N/A	ND	ND
Caryophyllene Oxide	0.04/0.11	N/A	ND	ND
Guaiol	0.03/0.09	N/A	ND	ND
Cedrol	0.04/0.11	N/A	ND	ND
$\alpha$ Bisabolol	0.02/0.07	N/A	ND	ND
TOTAL TERPENOIDS			ND	ND



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### 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 - 10/02/2020 OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03/0.09	≥LOD	N/A	ND	PASS
Carbofuran	0.01/0.04	≥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	0.02/0.06	≥LOD	N/A	ND	PASS
Daminozide	0.03/0.10	≥LOD	N/A	ND	PASS
DDVP (Dichlorvos)	0.02/0.07	≥LOD	N/A	ND	PASS
Dimethoate	0.02/0.07	≥LOD	N/A	ND	PASS
Ethoprop(hos)	0.03/0.08	≥LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.05	≥LOD	N/A	ND	PASS
Fenoxycarb	0.02 / 0.06	≥LOD	N/A	ND	PASS
Fipronil	0.02 / 0.06	≥LOD	N/A	ND	PASS
Imazalil	0.02 / 0.06	≥LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.06	≥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	0.02/0.06	≥LOD	N/A	ND	PASS
Spiroxamine	0.02/0.05	≥LOD	N/A	ND	PASS
Thiacloprid	0.03/0.07	≥LOD	N/A	ND	PASS

#### CATEGORY 2 PESTICIDE TEST RESULTS - 10/02/2020 OPASS

Abamectin	0.03/0.10	0.3	N/A	ND	PASS
Acephate	0.01/0.04	5	N/A	ND	PASS
Acequinocyl	0.02/0.05	4	N/A	ND	PASS
Acetamiprid	0.02/0.05	5	N/A	ND	PASS
Azoxystrobin	0.01/0.04	40	N/A	ND	PASS
Bifenazate	0.01/0.02	5	N/A	ND	PASS
Bifenthrin	0.01/0.02	0.5	N/A	ND	PASS
Boscalid	0.02/0.06	10	N/A	ND	PASS
Captan	0.2/0.5	5	N/A	ND	PASS
Carbaryl	0.01/0.02	0.5	N/A	ND	PASS
Chlorantraniliprole	0.01/0.03	40	N/A	ND	PASS

Continued on next page



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### 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

### CATEGORY 2 PESTICIDE TEST RESULTS - 10/02/2020 continued O PASS

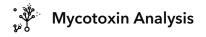
COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Clofentezine	0.02/0.06	0.5	N/A	ND	PASS
Cyfluthrin	0.1/0.4	1	N/A	ND	PASS
Cypermethrin	0.1/0.3	1	N/A	ND	PASS
Diazinon	0.01/0.04	0.2	N/A	ND	PASS
Dimethomorph	0.01/0.03	20	N/A	ND	PASS
Etoxazole	0.010/0.028	1.5	N/A	ND	PASS
Fenhexamid	0.02/0.1	10	N/A	ND	PASS
Fenpyroximate	0.03/0.08	2	N/A	ND	PASS
Flonicamid	0.01/0.04	2	N/A	ND	PASS
Fludioxonil	0.03/0.08	30	N/A	ND	PASS
Hexythiazox	0.01/0.04	2	N/A	ND	PASS
Imidacloprid	0.01/0.04	3	N/A	ND	PASS
Kresoxim-methyl	0.02/0.07	1	N/A	ND	PASS
Malathion	0.02/0.05	5	N/A	ND	PASS
Metalaxyl	0.02 / 0.06	15	N/A	ND	PASS
Methomyl	0.03/0.1	0.1	N/A	ND	PASS
Myclobutanil	0.03/0.1	9	N/A	ND	PASS
Naled	0.03/0.1	0.5	N/A	ND	PASS
Oxamyl	0.02/0.06	0.2	N/A	ND	PASS
Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND	PASS
Permethrin	0.03/0.09	20	N/A	ND	PASS
Phosmet	0.03/0.10	0.2	N/A	ND	PASS
Piperonylbutoxide	0.003/0.009	8	N/A	ND	PASS
Prallethrin	0.03/0.08	0.4	N/A	ND	PASS
Propiconazole	0.01/0.03	20	N/A	ND	PASS
Pyrethrins	0.03/0.08	1	N/A	ND	PASS
Pyridaben	0.006/0.019	3	N/A	ND	PASS
Spinetoram	0.02/0.07	3	N/A	ND	PASS
Spinosad	0.02/0.06	3	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	12	N/A	ND	PASS
Spirotetramat	0.01/0.02	13	N/A	ND	PASS
Tebuconazole	0.02/0.07	2	N/A	ND	PASS
Thiamethoxam	0.03/0.08	4.5	N/A	ND	PASS
Trifloxystrobin	0.01/0.03	30	N/A	ND	PASS



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Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

**Heavy Metals Analysis** 

**Microbial Impurities** 

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbial

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

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

Analysis PCR AND PLATING

Method: QSP - (1221) Analysis of Microbial Impurities

impurities.

**Method:** QSP - (1212) Analysis of Pesticides and Mycotoxins by LC-MS

### MYCOTOXIN TEST RESULTS - 10/02/2020 🔗 PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0/6.0	20	N/A	ND	PASS
Aflatoxin B2	1.8/5.6	20	N/A	ND	PASS
Aflatoxin G1	1.0/3.1	20	N/A	ND	PASS
Aflatoxin G2	1.2/3.5	20	N/A	ND	PASS
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

#### HEAVY METALS TEST RESULTS - 10/02/2020 @ 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

### MICROBIAL IMPURITIES TEST RESULTS (PCR) - 10/03/2020 🔗 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Detect	ND	PASS
Salmonella spp.	Detect	ND	PASS
Aspergillus fumigatus		NT	
Aspergillus flavus		NT	
Aspergillus niger		NT	
Aspergillus terreus		NT	

#### MICROBIAL IMPURITIES TEST RESULTS (PLATING) - 10/03/2020 ND

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





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Analysis conducted by 3M<sup>™</sup> Petrifilm<sup>™</sup> and plate counts of microbial impurities.

Method: QSP - (6794) Plating with 3M<sup>™</sup> Petrifilm<sup>™</sup>

# **Custom Analytics LLC**

# **Certificate of Analysis**

10/21/2020

# cbdMD Relieve 2.5oz 3000mg 4% Lidocaine R. CB-0007-R3 BME Comp 2009-15

