

DATE ISSUED 10/04/2020

SAMPLE NAME: cbdMD Relieve 4 oz 1500 mg Spray FRM#IS0031-CB15 Infused, Non-Inhalable

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

DISTRIBUTOR Business Name: cbdMD

License Number: Address:

SAMPLE DETAIL

Batch Number: 2009-17 Sample ID: 200930S012

Date Collected: 09/30/2020 Date Received: 09/30/2020 Batch Size: Sample Size: 1.0 Unit(s) Unit Mass: 120 Grams per Unit Serving Size:

Pesticides: **PASS**

Mycotoxins: **PASS**

Residual Solvents: NT



Scan QR code to verify authenticity of results.

RELIEVE

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected	Total THC/CBD is cal account the loss of a
Total CBD: 1633.080 mg/unit	Total THC = Δ 9THC + Total CBD = CBD + (Sum of Cannabinoids
Sum of Cannabinoids: 1649.640 mg/uni	
Total Cannabinoids: 1649.640 mg/unit	(CBG+0.877*CBGa) - (CBDV+0.877*CBDV

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 = Δ 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ 8THC + CBL + CBN Total Cannabinoids = (Δ 9THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBCa) + (CBC+0.877*CBCa) + (CBDV-0.877*CBCa) + (CBDV-

Moisture: NT

Density: 0.9611 g/mL

Viscosity: NT

Heavy Metals: **PASS**

Microbial Impurities (PCR): PASS

Microbial Impurities (Plating): DETECTED

SAFETY ANALYSIS - SUMMARY

Δ 9THC per	r Unit: 🔗 PASS
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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)

ame tackhouse LQC verified by: Carmen Stackhouse Date: 10/04/2020 Approved by: Josh Wurzer, President Date: 10/04/2020

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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: 1633.080 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1649.640 mg/uni

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ8THC + CBL + CBN

TOTAL CBG: 5.040 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: 5.880 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/04/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.6519	13.609	1.3609
CBDV	0.002/0.007	±0.0026	0.049	0.0049
CBN	0.001/0.004	±0.0017	0.047	0.0047
CBG	0.002 / 0.005	±0.0026	0.042	0.0042
Δ9ΤΗC	0.002 / 0.005	N/A	ND	ND
Δ8THC	0.01/0.02	N/A	ND	ND
THCa	0.001 / 0.002	N/A	ND	ND
THCV	0.002 / 0.008	N/A	ND	ND
t _{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
СВС	0.003/0.010	N/A	ND	ND
CBCa	0.001/0.004	N/A	ND	ND
SUM OF CANN	ABINOIDS		13.747 mg/g	1.3747%

Unit Mass: 120 Grams per Unit

Δ9THC per Unit	1100 per-package limit	ND	PASS
Total THC per Unit		ND	
CBD per Unit		1633.080 mg/unit	
Total CBD per Unit		1633.080 mg/unit	
Sum of Cannabinoids per Unit		1649.640 mg/unit	
Total Cannabinoids per Unit		1649.640 mg/unit	

MOISTURE TEST RESULT

DENSITY TEST RESULT

VISCOSITY TEST RESULT

Not Tested

Not Tested

0.9611 g/mL Tested 10/04/2020

Method: QSP - (7870) Sample Preparation



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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 (%)
α 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
β Pinene	0.04/0.11	N/A	ND	ND
Myrcene	0.04/0.11	N/A	ND	ND
α Phellandrene	0.05 / 0.1	N/A	ND	ND
3 Carene	0.04 / 0.1	N/A	ND	ND
α 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
α Cedrene	0.02/0.07	N/A	ND	ND
β Caryophyllene	0.02/0.07	N/A	ND	ND
α 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
α 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 @ PASS

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

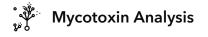
COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Clofentezine	0.02/0.06	0.5	N/A	ND	PASS
Cyfluthrin	0.1/0.4	1	N/A	ND	PASS
Cypermethrin	0.1/0.3	1	N/A	ND	PASS
Diazinon	0.01/0.04	0.2	N/A	ND	PASS
Dimethomorph	0.01/0.03	20	N/A	ND	PASS
Etoxazole	0.010/0.028	1.5	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).

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

MYCOTOXIN TEST RESULTS - 10/02/2020 O 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 O PASS

COMPOU	ND	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 OPASS

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 DETECTED

COMPOUND	RESULT (cfu/g)
Aerobic Plate Count	ND
Total Yeast and Mold	200



NOTES Photograph of sample provided by client.

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plate counts of microbial impurities.

Analysis conducted by $3M^{TM}$ PetrifilmTM and



Heavy Metals Analysis

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

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



Microbial Impurities Analysis

PCR AND PLATING

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

Method: QSP - (1221) Analysis of Microbial Impurities

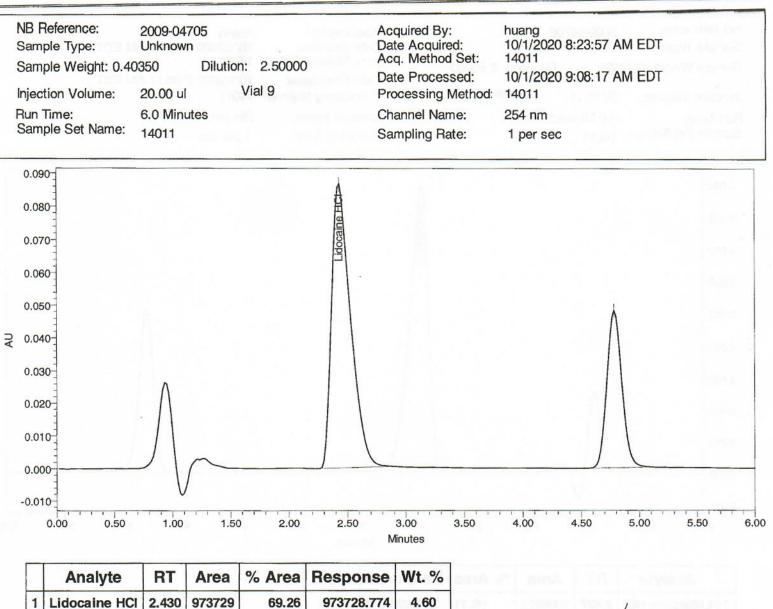
Method: QSP - (6794) Plating with 3M[™] Petrifilm[™]

Custom Analytics LLC

Certificate of Analysis

10/1/2020

cbdMD Relieve4oz1500mg 4% L.Spray CB-0031C15IS0031-CB15 Comp 2009-17



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