

DATE ISSUED 12/19/2020

#### SAMPLE NAME: cbdMD Sleep Lavender 20 oz 500 mg Infused, Non-Inhalable

#### CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

# DISTRIBUTOR

Business Name: cbdMD License Number: Address:

#### SAMPLE DETAIL

Batch Number: 02831L7 Sample ID: 201211R009

Date Collected: 12/11/2020 Date Received: 12/11/2020 Batch Size: Sample Size: 1.0 units Unit Mass: 567 grams per Unit Serving Size:



Moisture: NT

Density: NT

Viscosity: NT

Heavy Metals: **PASS** 

Microbial Impurities (PCR): PASS

36 TESTED, TOP 3 HIGHLIGHTED

Microbial Impurities (Plating): ND

Scan QR code to verify authenticity of results.

#### CANNABINOID ANALYSIS - SUMMARY

Total THC: **Not Detected** Total CBD: **510.300 mg/unit** Sum of Cannabinoids: 510.300 mg/unit Total Cannabinoids: 510.300 mg/unit

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

# SAFETY ANALYSIS - SUMMARY

#### ∆9THC per Unit: ⊘PASS

Foreign Material: NT

Water Activity: NT

Vitamin E Acetate: NT

#### **TERPENOID ANALYSIS - SUMMARY**

🔵 Linalool 0.14 mg/g

Limonene 0.10 mg/g

Pesticides: **PASS** 

Mycotoxins: **PASS** 

Residual Solvents: **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 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 Stachhouse LQC verified by: Carmen Stackhouse Date: 12/19/2020 Approved by: Josh Wurzer, President Date: 12/19/2020

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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: 510.300 mg/unit

Total CBD (CBD+0.877\*CBDa)

#### TOTAL CANNABINOIDS: 510.300 mg/unit

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

#### TOTAL CBG: ND

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: ND

Total CBDV (CBDV+0.877\*CBDVa)

#### CANNABINOID TEST RESULTS - 12/14/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.0431	0.900	0.0900
∆9THC	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
THCVa	0.002 / 0.005	N/A	ND	ND
CBDa	0.001 / 0.003	N/A	ND	ND
CBDV	0.002 / 0.007	N/A	ND	ND
CBDVa	0.001 / 0.003	N/A	ND	ND
CBG	0.002 / 0.005	N/A	ND	ND
CBGa	0.002 / 0.006	N/A	ND	ND
CBL	0.003 / 0.008	N/A	ND	ND
CBN	0.001 / 0.004	N/A	ND	ND
СВС	0.003/0.010	N/A	ND	ND
CBCa	0.001 / 0.004	N/A	ND	ND
SUM OF CANNA	BINOIDS		0.900 mg/g	0.090%

#### Unit Mass: 567 grams per Unit

∆9THC per Unit	1100 per-package limit	ND	PASS
Total THC per Unit		ND	
CBD per Unit		510.300 mg/unit	
Total CBD per Unit		510.300 mg/unit	
Sum of Cannabinoids per Unit		510.300 mg/unit	
Total Cannabinoids per Unit		510.300 mg/unit	

#### MOISTURE TEST RESULT DE

#### DENSITY TEST RESULT

#### VISCOSITY TEST RESULT

Not Tested

Not Tested





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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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# Reference of 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

#### Linalool

A monoterpenoid alcohol with a fragrance that can be described as spicy, waxy, citrus and floral. It is commonly used as an insecticide against cockroaches, flies, fleas and other insects. Found in bail, lavender, cinnamon, hops, mugwort, goldenrods...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.



#### TERPENOID TEST RESULTS - 12/17/2020

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Linalool	0.03/0.08	±0.007	0.14	0.014
Limonene	0.02/0.05	±0.004	0.10	0.010
$\alpha$ 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
β 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
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
Fenchol	0.03/0.09	N/A	ND	ND
(-)-lsopulegol	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
βCaryophyllene	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			0.24 mg/g	0.024%

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## Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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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 - 12/19/2020 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 - 12/19/2020 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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#### **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 - 12/19/2020 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).

 $\ensuremath{\textbf{Method:}}\xspace$  QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

# ि Residual Solvents Analysis

**CATEGORY 1 AND 2 RESIDUAL SOLVENTS** Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

#### MYCOTOXIN TEST RESULTS - 12/16/2020 🔗 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

#### CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 12/17/2020 O PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03/0.09	1	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Ethylene Oxide	0.1/0.4	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

#### CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 12/17/2020 OPASS

Acetone	20/50	5000	N/A	ND	PASS
Acetonitrile	2/7	410	N/A	ND	PASS
Butane	10/50	5000	N/A	ND	PASS
Ethanol	20/50	5000	N/A	ND	PASS
Ethyl acetate	20/60	5000	N/A	ND	PASS
Ethyl ether	20/50	5000	N/A	ND	PASS
Heptane	20/60	5000	N/A	ND	PASS
Hexane	2/5	290	N/A	ND	PASS
Isopropyl Alcohol	10/40	5000	N/A	ND	PASS
Methanol	50 / 200	3000	N/A	ND	PASS
Pentane	20/50	5000	N/A	ND	PASS
Propane	10/20	5000	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50 / 160	2170	N/A	ND	PASS



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### | 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

# 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>

#### HEAVY METALS TEST RESULTS - 12/16/2020 🔗 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	<loq< th=""><th>PASS</th></loq<>	PASS
Mercury	0.002/0.01	3	N/A	ND	PASS

#### MICROBIAL IMPURITIES TEST RESULTS (PCR) - 12/17/2020 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) - 12/17/2020 ND

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



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