



# Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20230623-012  
Sample: CA230623-006-015  
cbdMD - PTN-CS-0250 - ITM000994  
Strain: cbdMD - PTN-CS-0250 - ITM000994  
Category: Ingestible  
Type: Tincture

CBDMD  
Lic. #  
10130 Perimeter Pkwy  
Charlotte, NC 28216  
Lic. #

Batch#: 31511P2.1  
Batch Size Collected:  
Total Batch Size:  
Collected: 06/23/2023; Received: 06/23/2023  
Completed: 06/28/2023

Moisture <b>NT</b> Water Activity <b>NT</b>	$\Delta$ 9-THC <b>ND</b>	CBD <b>282.74 mg/unit</b>	Total Cannabinoids <b>289.39 mg/unit</b>	Total Terpenes <b>NT</b>
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Summary	SOP Used	Date Tested	
Batch	POT-PREP-004	06/23/2023	Pass
Cannabinoids	RS-PREP-001	06/23/2023	Complete
Residual Solvents	MICRO-PREP-001	06/26/2023	Pass
Microbials	PESTMICO-LC-PREP-001	06/26/2023	Pass
Mycotoxins	HM-PREP-001	06/23/2023	Pass
Heavy Metals	PESTMICO-LC-PREP-001 /	06/23/2023	Pass
Pesticides	PEST-GC-PREP-001		Pass



Scan to see results

## Cannabinoid Profile

1 Unit = bottle, 28.9 g. 1 mL = 0.94 g.

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	mg/mL	mg/unit	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	mg/mL	mg/unit
THCa	0.0368	0.0123	ND	ND	ND	ND	CBGa	0.0534	0.0178	ND	ND	ND	ND
$\Delta$ 9-THC	0.0368	0.0053	ND	ND	ND	ND	CBG	0.0368	0.0061	0.008	0.08	0.07	2.20
$\Delta$ 8-THC	0.0368	0.0055	ND	ND	ND	ND	CBN	0.0368	0.0074	0.015	0.15	0.14	4.45
THCV	0.0368	0.0048	ND	ND	ND	ND	Total THC			ND	ND	ND	ND
CBDa	0.0368	0.0059	ND	ND	ND	ND	Total CBD			0.98	9.78	9.20	282.74
CBD	0.0368	0.0050	0.978	9.78	9.20	282.74	Total			1.00	10.01	9.41	289.39
CBDV	0.0368	0.0049	<LOQ	<1	<1	<LOQ							
CBC	0.0444	0.0148	ND	ND	ND	ND							

Total THC=THCa \* 0.877 +  $\Delta$ 9-THC +  $\Delta$ 8-THC; Total CBD = CBDa \* 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

## Terpene Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
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NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



Infinite Chemical Analysis Labs  
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(858) 623-2740  
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Lic# C8-000047-LIC

*Josh M Swider*

Josh Swider  
Lab Director, Managing Partner  
06/28/2023

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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## Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status			
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g			
1,2-Dichloro-Ethane	ND	0.31	0.1032	1	Pass	Acetone	ND	51.246	2.572	5000	Pass	n-Hexane	ND	0.931	0.31	290	Pass
Benzene	ND	0.088	0.023	1	Pass	Acetonitrile	ND	0.798	0.266	410	Pass	Isopropanol	ND	5.037	1.679	5000	Pass
Chloroform	ND	0.174	0.058	1	Pass	Butane	ND	4.849	1.114	5000	Pass	Methanol	ND	4.665	1.555	3000	Pass
Ethylene Oxide	ND	0.757	0.252	1	Pass	Ethanol	ND	40.542	13.513	5000	Pass	Pentane	ND	17.255	5.752	5000	Pass
Methylene-Chloride	ND	0.729	0.148	1	Pass	Ethyl-Acetate	ND	2.288	0.436	5000	Pass	Propane	ND	26.11	8.703	5000	Pass
Trichloroethene	ND	0.19	0.063	1	Pass	Ethyl-Ether	ND	2.869	0.593	5000	Pass	Toluene	ND	0.864	0.136	890	Pass
						Heptane	ND	6.548	2.183	5000	Pass	Xylenes	ND	0.857	0.241	2170	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

## Heavy Metal Screening

	LOQ	LOD	Limit	Status	
	µg/g	µg/g	µg/g	µg/g	
Arsenic	ND	0.009	0.003	1.5	Pass
Cadmium	ND	0.002	0.001	0.5	Pass
Lead	ND	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	3	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

## Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Aspergillus flavus		NR	NT
Aspergillus fumigatus		NR	NT
Aspergillus niger		NR	NT
Aspergillus terreus		NR	NT
STEC		Not Detected	Pass
Salmonella SPP		Not Detected	Pass

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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*Josh M Swider*

Josh Swider  
Lab Director, Managing Partner  
06/28/2023

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## Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status		
	µg/g	µg/g	µg/g		µg/kg	µg/kg	µg/kg	µg/kg		
Aldicarb	ND	0.030	0.009	Pass	B1	ND	6.2	2.05	Tested	
Carbofuran	ND	0.030	0.002	Pass	B2	ND	5	1.63	Tested	
Chlordane	ND	0.075	0.025	Pass	G1	ND	5.38	1.77	Tested	
Chlorfenapyr	ND	0.075	0.025	Pass	G2	ND	5	1.02	Tested	
Chlorpyrifos	ND	0.030	0.008	Pass	Ochratoxin A	ND	16.41	5.42	20	Pass
Coumaphos	ND	0.030	0.005	Pass	Total Aflatoxins	ND		20	Pass	
Daminozide	ND	0.033	0.011	Pass						
Dichlorvos	ND	0.030	0.007	Pass						
Dimethoate	ND	0.030	0.007	Pass						
Ethoprophos	ND	0.030	0.004	Pass						
Etofenprox	ND	0.030	0.006	Pass						
Fenoxycarb	ND	0.030	0.006	Pass						
Fipronil	ND	0.030	0.008	Pass						
Imazalil	ND	0.030	0.009	Pass						
Methiocarb	ND	0.030	0.005	Pass						
Mevinphos	ND	0.032	0.011	Pass						
Paclbutrazol	ND	0.030	0.006	Pass						
Parathion Methyl	ND	0.024	0.008	Pass						
Propoxur	ND	0.030	0.005	Pass						
Spiroxamine	ND	0.030	0.003	Pass						
Thiacloprid	ND	0.030	0.002	Pass						

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		
Abamectin	ND	0.039	0.013	0.3	Pass	Kresoxim Methyl	ND	0.030	0.007	1	Pass
Acephate	ND	0.063	0.021	5	Pass	Malathion	ND	0.030	0.005	5	Pass
Acequinocyl	ND	0.035	0.011	4	Pass	Metalaxyl	ND	0.030	0.003	15	Pass
Acetamiprid	ND	0.030	0.006	5	Pass	Methomyl	ND	0.030	0.006	0.1	Pass
Azoxystrobin	ND	0.030	0.003	40	Pass	Myclobutanil	ND	0.030	0.007	9	Pass
Bifenazate	ND	0.030	0.005	5	Pass	Naled	ND	0.030	0.005	0.5	Pass
Bifenthrin	ND	0.030	0.006	0.5	Pass	Oxamyl	ND	0.030	0.009	0.3	Pass
Boscalid	ND	0.030	0.007	10	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.2	Pass
Captan	ND	0.358	0.120	5	Pass	Permethrin	ND	0.030	0.002	20	Pass
Carbaryl	ND	0.030	0.004	0.5	Pass	Phosmet	ND	0.030	0.005	0.2	Pass
Chlorantraniliprole	ND	0.030	0.006	40	Pass	Piperonyl Butoxide	ND	0.030	0.006	8	Pass
Clofentezine	ND	0.030	0.005	0.5	Pass	Prallethrin	ND	0.055	0.018	0.4	Pass
Cyfluthrin	ND	0.056	0.019	1	Pass	Propiconazole	ND	0.037	0.012	20	Pass
Cypermethrin	ND	0.044	0.015	1	Pass	Pyrethrins	ND	0.030	0.002	1	Pass
Diazinon	ND	0.030	0.009	0.2	Pass	Pyridaben	ND	0.030	0.005	3	Pass
Dimethomorph	ND	0.030	0.009	20	Pass	Spinetoram	ND	0.030	0.003	3	Pass
Etoxazole	ND	0.030	0.003	1.5	Pass	Spinosad	ND	0.030	0.003	3	Pass
Fenhexamid	ND	0.030	0.008	10	Pass	Spiromesifen	ND	0.030	0.005	12	Pass
Fenpyroximate	ND	0.030	0.005	2	Pass	Spirotetramat	ND	0.030	0.006	13	Pass
Flonicamid	ND	0.046	0.015	2	Pass	Tebuconazole	ND	0.030	0.009	2	Pass
Fludioxonil	ND	0.048	0.016	30	Pass	Thiamethoxam	ND	0.030	0.006	4.5	Pass
Hexythiazox	ND	0.031	0.010	2	Pass	Trifloxystrobin	ND	0.030	0.002	30	Pass
Imidacloprid	ND	0.030	0.009	3	Pass						

### Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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## Certificate of Analysis



Sample Name	cbdMD - PTN-CS-0250 - ITM000994	ICAL ID	20230623-012
Batch	31511P2.1	Registering Laboratory	San Diego
Client	CBDMD	Contact	Customer Service Team
Address		Address	8312 Miramar Mall San Diego, CA 92121
Telephone		Telephone	(858) 623-2740
Email		Email	questions@infinitecal.com
Sampler		COA Issue Date	June 30, 2023

This report supersedes any previous revision with this reference. This document must not be reproduced, except in full. If samples were provided by the customer, results apply only to the samples 'as received' and responsibility for representative sampling rests with the customer. Water results are reported on an 'as is' basis. Infinite Chemical Analysis Labs, LLC makes no claims pertaining to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein.

### Definitions

| <: Less Than | >: Greater Than | RP: Result Pending | MPN: Most Probable Number | CFU: Colony Forming Units | ---: Not Requested | NA: Not Applicable | ND: Not Detected | MDL: Method Detection Limit | LCMRL: Lowest Concentration Minimum Reporting Level | NT: Not Tested | ~: Estimated | TBA: To Be Advised | TNTC: Too numerous to count

### Microbial Plate Panel

Analyte	CFU/g	MDL	Client Limit <sup>1</sup>	Status <sup>2</sup>
Aerobic (APC)	<MDL	10	---	---
Coliforms	NT	10	---	---
<i>E. coli</i>	NT	10	---	---
Yeast & Mold	<MDL	10	---	---
<i>Enterobacteriaceae</i>	NT	10	---	---
<i>Salmonella spp.</i>	NT	10	---	---
<i>Listeria spp.</i>	<MDL	10	---	---

### Analysis Location

All analyses were completed by Infinite Chemical Analysis – San Diego.

### Analysis Comments

Method ID: MICRO-PLATE-001

<sup>1</sup>Client limit is self-selected and will be replaced by official CA state limits when they become available.

<sup>2</sup>Status of Pass/Fail based on client limit selected.

*Josh M Swider*

Josh Swider  
Lab Director, CEO  
June 30, 2023

# CERTIFICATE OF ANALYSIS

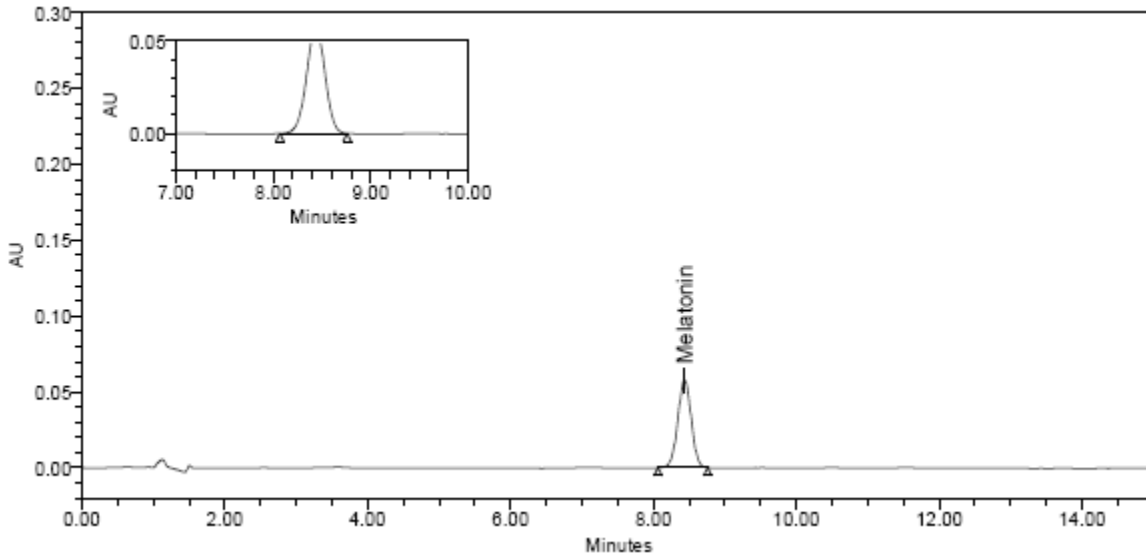


12661 HOOVER STREET GARDEN GROVE, CA 92841 | P. 714-754-4372 | F. 714-668-9972 | WWW.ALKEMIST.COM

**Report Issued To:** CBD Industries, LLC  
10130 Perimeter Parkway  
Charlotte NC 28216-2447  
USA

**Sample Name:** cbdMD - PTN-CS-0250  
**Description:** Liquid extract; Liquid  
**Lot #:** 31511P2.1  
**AL #:** 23156BYY\_1  
**Analysis ID:** 202752  
**Received:** 06/05/23

## Determination of Melatonin by HPLC



Ret. Time (min)	Compound Name	Prep 1 (%)	Prep 2 (%)	Average (%)	Average (mg/mL)	Specification	Result
8.4	Melatonin	0.217	0.199	0.208	2.001	1.485-1.815 mg/mL	Fail

### Chromatographic Conditions:

Method: ATM-815-0147  
Column: AP132 Prodigy 5 $\mu$  ODS3 100A (150 x 4.6 mm)  
Temperature: 25°C  
Flow Rate: 1.5 mL/min  
Injection Volume: 10  $\mu$ L  
UV Detection: 222 nm  
Mobile Phase: Acetonitrile:Water:Phosphoric Acid (20:80:0.5)  
HPLC Instrument: Alliance\_2

### Sample Preparation:

Shook sample well. Transferred approximately 200 mg sample into 25 mL volumetric flask. Added about 20 mL methanol. Vortexed for 30 seconds, sonicated for 20 minutes at room temperature. Let cool down and diluted to volume with methanol. Filtered through 0.45  $\mu$ m PTFE syringe filter into HPLC vial for analysis.

### Report Summary:

Conclusion: This "cbdMD - PTN-CS-0250 " test sample contains an average of 2.001 mg/mL Melatonin on the as-is basis.  
OOS Reference: OOS-2023-565  
Density: 960.844 mg/mL  
Empower Reference: 16623 Melatonin  
Rev 1: Updated sample name on report



Diana Jimenez  
Lead Analytical Chemist

Digitally signed by Diana Jimenez  
DN: cn=Diana Jimenez,  
o=Alkemist Labs,  
ou=Analytical Team,  
email=diana@alkemist.com,  
c=US  
Date: 2023.06.21 16:34:24  
-07'00'

**Analysis Date : 06/15/23      Analyzed By: C Decasiano**  
**Rev 1: 06/21/23 GL**

**Authorized By: Diana Jimenez,**  
**Lead Analytical Chemist**