

Certificate of Analysis

Order # 2304HBR0029
Order Date: 4/27/2023
Sample # 2304HBR0029-003
Sampling Date: 5/1/2023 00:05

Receipt Date: 5/1/2023 15:05
Completion Date: 05/04/2023 17:11
Initial Gross Weight: 136.0 g
Sampling Method: LAB-025

Product Name: cbdMD Tropical Mix CBD Gummies 5
Description: Gummy
Matrix: Edible Gummy
Total Batch Weight or Volume:



Client: cbdMD
Address:
Address:

Batch #: 230174
Extracted From: Hemp
Lot ID: 230174
Seed to Sale #:

Batch Date: 5/1/2023
Cultivars: Isolate
Test Reg State: Hemp FL

Cultivation Facility:
Cultivation Date: 4/27/2023
Production Facility: Plant 6
Production Date: 4/27/2023

SUMMARY



TESTED Potency	TESTED Terpenes	PASSED Pesticides	PASSED Heavy Metals	PASSED Total Contaminant Load	PASSED Residual Solvents	TESTED Total Aerobic Bacteria
PASSED Mycotoxins	PASSED Microbials	PASSED Total Yeast and Mold	PASSED Filt and Foreign Material	PASSED Water Activity	NOT TESTED Moisture	NOT TESTED Homogeneity

POTENCY

TESTED

Analyte	LOD (mg/g)	Result (mg/g)	Result %	mg/unit
CBD	0.00001	15.9	1.59	63.62
CBG	0.000015	0.188	0.019	0.750
CBN	0.000009	0.101	0.010	0.403
CBC	0.000004	ND	ND	N/A
CBDA	0.000012	ND	ND	N/A
CBDV	0.000017	ND	ND	N/A
CBGA	0.000008	ND	ND	N/A
d8-THC	0.000246	ND	ND	N/A
d9-THC	0.00002	ND	ND	N/A
THCA	0.000012	ND	ND	N/A
THCV	0.000015	ND	ND	N/A

Sample Prepared By: Date/Time: 5/4/2023 11:04
Batch Reviewed By: Date/Time: 5/4/2023 14:36
Specimen wt (g): 0.5313
Analysis Method: TM-001 Potency

Sample Analyzed By: Date/Time: 5/4/2023 11:29
Analysis #
Potency 1.batch.bin
Dilution: 100
Instrument Used: HPLC

POTENCY SUMMARY

Total THC 0.000%	Total THC/Unit 0.000 mg	THC Label Claim N/A NoCalc	Total Cannabinoids 1.62%
Total CBD 1.59%	Total CBD/Unit 63.62 mg	CBD Label Claim N/A NoCalc	Total Cannabinoids/Unit 64.775 mg

TERPENES SUMMARY

Analyte	Result (ug/g)	Result %
(+/-)-Borneol	ND	ND
(+/-)-Fenchone	ND	ND
[+/-]-Camphor	ND	ND
alpha-Bisabolol	ND	ND
alpha-Cedrene	ND	ND
alpha-Humulene	ND	ND
alpha-Phellandrene	ND	ND
alpha-Pinene	ND	ND
alpha-Terpinene	ND	ND
alpha-terpinolene	ND	ND

Total Terpenes:

Showing top 10 Terpenes, full analysis on the following page.

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Cultivation Facility:
Cultivation Date: 4/27/2023
Production Facility: Plant 6
Production Date: 4/27/2023

TERPENES

Analyte	LOD (ug/g)	Result (ug/g)	Result %
alpha-Pinene	8	ND	ND
Isopulegol	59	ND	ND
alpha-Terpinene	94	ND	ND
gamma-Terpinene	6	ND	ND
Linalool	18	ND	ND
alpha-Humulene	21	ND	ND
Menthol	44	ND	ND
Guaiol	24	ND	ND
Nerol	25	ND	ND
Valencene	27	ND	ND
alpha-Cedrene	20	ND	ND
Endo-Fenchyl Alcohol	40	ND	ND
Pulegone	11	ND	ND
Isoborneol	74	ND	ND
Ocimenes	31	ND	ND
Farnesene	130	ND	ND
alpha-Phellandrene	19	ND	ND
beta-Myrcene	50	ND	ND
(+/-)-Borneol	15	ND	ND

TESTED

Analyte	LOD (ug/g)	Result (ug/g)	Result %
Camphene	10	ND	ND
delta-3-Carene	16	ND	ND
Eucalyptol	56	ND	ND
alpha-terpinolene	17	ND	ND
Geraniol	13	ND	ND
Z-Nerolidol	22	ND	ND
E-Nerolidol	19	ND	ND
E-Caryophyllene	31	ND	ND
alpha-Bisabolol	20	ND	ND
D-Limonene	15	ND	ND
Sabinene	29	ND	ND
Terpineol	31	ND	ND
[+/-]-Camphor	62	ND	ND
(+/-)-Fenchone	21	ND	ND
Cedrol	7	ND	ND
Geranyl acetate	19	ND	ND
beta-Pinene	26	ND	ND
Caryophyllene Oxide	191	ND	ND
Sabinene Hydrate	21	ND	ND


Sample Prepared By: Date/Time: 039 5/3/2023 16:40
Batch Reviewed By: Date/Time: 027 5/4/2023 13:46
Specimen wt: 0.5464
Analysis Method: TM-004 Terpenes

Sample Analyzed By: Date/Time: 039 5/3/2023 16:52
Analysis # 05_02 Terps batch.batch.bin
Dilution: 50
Instrument Used: LI-GCMS

Total Terpenes: %

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Certificate of Analysis

Order # 2304HBR0029	Receipt Date: 5/1/2023 15:05	Product Name: cbdMD Tropical Mix CBD Gummies 5	
Order Date: 4/27/2023	Completion Date: 05/04/2023 17:11	Description: Gummy	
Sample # 2304HBR0029-003	Initial Gross Weight: 136.0 g	Matrix: Edible Gummy	
Sampling Date: 5/1/2023 00:05	Sampling Method: LAB-025	Total Batch Weight or Volume:	

Client: cbdMD	Batch #: 230174	Batch Date: 5/1/2023	Cultivation Facility:
Address:	Extracted From: Hemp	Cultivars: Isolate	Cultivation Date: 4/27/2023
Address:	Lot ID: 230174	Test Reg State: Hemp FL	Production Facility: Plant 6
	Seed to Sale #:		Production Date: 4/27/2023

PESTICIDES PASSED

Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status	Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status
Abamectin	14.3	300	ND	Pass	Acephate	8.4	3000	ND	Pass
Acequinocyl	14.4	2000	ND	Pass	Acetamiprid	9.3	3000	ND	Pass
Aldicarb	11.4	100	ND	Pass	Azoxystrobin	14	3000	ND	Pass
Bifenazate	14.3	3000	ND	Pass	Bifenthrin	11.1	500	ND	Pass
Boscalid	13.1	3000	ND	Pass	Captan	13.3	3000	ND	Pass
Carbaryl	14.2	500	ND	Pass	Carbofuran	8.4	100	ND	Pass
Chlorantraniliprole	26.4	3000	ND	Pass	Chlordane	10	100	ND	Pass
Chlorfenapyr	6.8	100	ND	Pass	Chlormequat chloride	23.1	3000	ND	Pass
Chlorpyrifos	15.6	100	ND	Pass	Clofentezine	13.6	500	ND	Pass
Coumaphos	3.9	100	ND	Pass	Cyfluthrin	7.6	1000	ND	Pass
Cypermethrin	14	1000	ND	Pass	Daminozide	13.5	100	ND	Pass
Diazinon	11.2	200	ND	Pass	Dichlorvos	14.4	100	ND	Pass
Dimethoate	15.1	100	ND	Pass	Dimethomorph	16.7	3000	ND	Pass
Ethoprophos	14.7	100	ND	Pass	Etofenprox	9.4	100	ND	Pass
Etoxazole	11.2	1500	ND	Pass	Fenhexamid	13.7	3000	ND	Pass
Fenoxycarb	14.4	100	ND	Pass	Fenpyroximate	12.9	2000	ND	Pass
Fipronil	12.3	100	ND	Pass	Flonicamid	12.8	2000	ND	Pass
Fludioxonil	12.5	3000	ND	Pass	Hexythiazox	12.7	2000	ND	Pass
Imazalil	14.4	100	ND	Pass	Imidacloprid	28.6	3000	ND	Pass
Kresoxim-methyl	10	1000	ND	Pass	Malathion	19.2	2000	ND	Pass
Metalaxyl	12.2	3000	ND	Pass	Methiocarb	14.6	100	ND	Pass
Methomyl	9.6	100	ND	Pass	Methyl parathion	9.1	100	ND	Pass
Mevinphos	11.4	100	ND	Pass	Myclobutanil	11.4	3000	ND	Pass
Naled	15.1	500	ND	Pass	Oxamyl	7.6	500	ND	Pass
Paclobutrazol	12.4	100	ND	Pass	Pentachloronitrobenzene	8.4	200	ND	Pass
Permethrin	9.7	1000	ND	Pass	Phosmet	12.6	200	ND	Pass
Piperonylbutoxide	8	3000	ND	Pass	Prallethrin	13.2	400	ND	Pass
Propiconazole	14.6	1000	ND	Pass	Propoxur	8.7	100	ND	Pass
Pyrethrins	25.0	1000	ND	Pass	Pyridaben	12.4	3000	ND	Pass
Spinetoram	12.2	3000	ND	Pass	Spinosad A and D	11.8	3000	ND	Pass
Spiromesifen	14.9	3000	ND	Pass	Spirotetramat	13.5	3000	ND	Pass
Spiroxamine	14.7	100	ND	Pass	Tebuconazole	13	1000	ND	Pass
Thiacloprid	8.2	100	ND	Pass	Thiamethoxam	13.4	1000	ND	Pass
Trifloxystrobin	7	3000	ND	Pass					

Sample Prepared By: 034	Date/Time: 5/3/2023 11:12	Specimen wt (g): 1.0259	Dilution: 125	Analysis # 2023_05_02 GC1 Cal Pest1.batch.bin
Sample Analyzed By: 034	Date/Time: 5/3/2023 11:40	Analysis Method: TM-003 Pesticides		
Batch Reviewed By: 027	Date/Time: 5/3/2023 16:34	Instrument Used: GC/MS/MS		
Sample Prepared By: 034	Date/Time: 5/3/2023 11:12	Specimen wt (g): 1.0259	Dilution: 125	Analysis # 2023_05_02 LC2 Cal Pest1.batch.bin
Sample Analyzed By: 034	Date/Time: 5/3/2023 11:40	Analysis Method: TM-002 Pesticides and Mycotoxins		
Batch Reviewed By: 027	Date/Time: 5/3/2023 16:34	Instrument Used: LC/MS/MS		

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Initial Gross Weight: 136.0 g
Sampling Method: LAB-025

Product Name: cbdMD Tropical Mix CBD Gummies 5
Description: Gummy
Matrix: Edible Gummy
Total Batch Weight or Volume:



Client: cbdMD
Address:
Address:

Batch #: 230174
Extracted From: Hemp
Lot ID: 230174
Seed to Sale #:

Batch Date: 5/1/2023
Cultivars: Isolate
Test Reg State: Hemp FL

Cultivation Facility:
Cultivation Date: 4/27/2023
Production Facility: Plant 6
Production Date: 4/27/2023

HEAVY METALS PASSED				
Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status
Lead	20.7	500	ND	Pass
Arsenic	26.2	1500	ND	Pass
Cadmium	18.9	500	ND	Pass
Mercury	28.4	3000	ND	Pass
Sample Prepared By: Date/Time: Sample Analyzed By: Date/Time:				
028 5/3/2023 14:53 028 5/4/2023 9:17				
Batch Reviewed By: Date/Time: Analysis #				
029 5/4/2023 13:53 ICPMS_01.b				
Specimen wt (g): Dilution:				
0.5080 250				
Analysis Method: Instrument Used:				
TM-006 Heavy Metals ICP-MS				

RESIDUAL SOLVENTS PASSED				
Analyte	LOD (mg/kg)	Action Level (mg/kg)	Result (mg/kg)	Status
Acetone	15.2	750	ND	Pass
Acetonitrile	10.3	60	ND	Pass
Benzene	0.1	1	ND	Pass
Butane	22.5	5000	ND	Pass
Chloroform	0.1	2	ND	Pass
1,2-Dichloroethane	0.2	2	ND	Pass
1,1-Dichloroethene	0.3	8	ND	Pass
Ethanol	17.8	5000	ND	Pass
Ethyl acetate	15.3	400	ND	Pass
Ethyl ether	18.9	500	ND	Pass
Ethylene oxide	0.2	5	ND	Pass
Heptane	29.4	5000	ND	Pass
Hexane	27.1	250	ND	Pass
Isopropyl alcohol	15.4	500	ND	Pass
Methanol	22.9	250	ND	Pass
Methylene chloride	0.1	125	ND	Pass
Pentane	27.6	750	ND	Pass
Propane	17.6	5000	ND	Pass
Trichloroethylene	0.1	25	ND	Pass
Toluene	22.6	150	ND	Pass
Total xylenes	20.0	150	ND	Pass
Sample Prepared By: Date/Time: Sample Analyzed By: Date/Time:				
039 5/3/2023 11:31 039 5/3/2023 12:47				
Batch Reviewed By: Date/Time: Analysis #				
029 5/4/2023 14:18 05012023 RSA 1.batch.bin				
Specimen wt (g): Dilution:				
0.2877 5				
Analysis Method: Instrument Used:				
TM-005 Residual Solvents HS-GCMS				

TOTAL CONTAMINANT LOAD			
Analyte	Action Level (mg/kg)	Result (mg/kg)	Status
Heavy Metals/Pesticides	30	0	Pass

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Total Batch Weight or Volume:



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Address:

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Seed to Sale #:

Batch Date: 5/1/2023
Cultivars: Isolate
Test Reg State: Hemp FL

Cultivation Facility:
Cultivation Date: 4/27/2023
Production Facility: Plant 6
Production Date: 4/27/2023

MYCOTOXINS

PASSED

Analyte	LOD (ug/kg)	Action Level (ug/kg)	Result (ug/kg)	Status
Aflatoxin B1	1.5	20	ND	Pass
Aflatoxin B2	2.7	20	ND	Pass
Aflatoxin G1	2.5	20	ND	Pass
Aflatoxin G2	2.5	20	ND	Pass
Ochratoxin A	2.9	20	ND	Pass
Total Aflatoxin				N/A

Sample Prepared By: Date/Time: **Sample Analyzed By:** Date/Time:
034 5/3/2023 11:12 025 5/3/2023 15:06
Batch Reviewed By: Date/Time: **Analysis #**
027 5/3/2023 16:16 2023_05_02 LC2 Cal Pest1.batch.bin
Specimen wt (g): **Dilution:**
1.0259 125
Analysis Method: **Instrument Used:**
TM-002 Pesticides and Mycotoxins LC/MS/MS

MICROBIAL

PASSED

Analyte	Action Level (present in 1 g)	Result (present in 1 g)	Status
Salmonella	Present	Absent	Pass
Shiga Toxin E. coli	Present	Absent	Pass
Total Aspergillus*	Present	Absent	Pass

Sample Prepared By: Date/Time: **Sample Analyzed By:** Date/Time:
043 5/3/2023 14:14 043 5/3/2023 15:44
Batch Reviewed By: Date/Time: **Analysis #**
027 5/3/2023 16:16 2
Specimen wt (g): **Dilution:**
1.00 1
Analysis Method: **Instrument Used:**
TM-011 Microbiology qPCR

* Total Aspergillus represents the sum of the results of Aspergillus flavus, Aspergillus fumigatus, Aspergillus niger, and Aspergillus terreus.

TOTAL YEAST AND MOLD

PASSED

Analyte	Action Level (cfu/g)	Result (cfu/g)	Status
Total Combined Yeasts & Molds	100000	0.0	Pass

Sample Prepared By: Date/Time: **Sample Analyzed By:** Date/Time:
022 5/4/2023 11:31 022 5/4/2023 11:33
Batch Reviewed By: Date/Time: **Analysis #**
027 5/4/2023 12:44 2
Specimen wt (g): **Dilution:**
1.04 100
Analysis Method: **Instrument Used:**
TM-012 Yeast and Molds Incubator

FILTH & FOREIGN MATERIAL

PASSED

Analyte	Action Level	Result	Status
Feces Amount (mg/kg)	0.5	0.000	Pass
Filth (%)	1	0.000	Pass

Sample Analyzed By: Date/Time: **Analysis #**
031 5/2/2023 17:05
Batch Reviewed By: Date/Time: **Analysis #**
027 5/3/2023 11:05 FF
Specimen wt (g):
15.0
Analysis Method: **Instrument Used:**
TM-010 Filth and Foreign Material Electronic Balance

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Seed to Sale #:

Batch Date: 5/1/2023
Cultivars: Isolate
Test Reg State: Hemp FL

Cultivation Facility:
Cultivation Date: 4/27/2023
Production Facility: Plant 6
Production Date: 4/27/2023

WATER ACTIVITY		PASSED	
Analyte	Action Level (aw)	Result (aw)	Status
Water Activity	0.85	0.63	Pass
Sample Analyzed By:	Date/Time		
045	5/2/2023 18:25		
Batch Reviewed By:	Date/Time:	Analysis #	
027	5/3/2023 11:31	WA	
Specimen wt (g):			
1.04			
Analysis Method:	Instrument Used:		
TM-007 Water Activity	Water Activity Probe		

MOISTURE		NOT TESTED	
Analyte	Action Level (%)	Result (%)	Status
Moisture Content			N/A
Sample Analyzed By:	Date/Time:		
Batch Reviewed By:	Date/Time:	Analysis #	
Specimen wt (g):			
Analysis Method:	Instrument Used:		

TOTAL AEROBIC BACTERIA		TESTED	
Analyte	Action Level (cfu/g)	Result (cfu/g)	Status
Total Aerobic Bacteria		0.0	N/A
Sample Prepared By:	Date/Time:	Sample Analyzed By:	Date/Time:
022	5/3/2023 8:48	022	5/3/2023 8:49
Batch Reviewed By:	Date/Time:	Analysis #	
027	5/3/2023 11:31	1	
Specimen wt (g):	Dilution:		
1.04	100.0		
Analysis Method:	Instrument Used:		
TM-013, Total Aerobic Count	Incubator		

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SAMPLE NAME: 1500mg Broad Spectrum Gummies

Infused, Solid Edible

CULTIVATOR / MANUFACTURER**Business Name:****License Number:****Address:****DISTRIBUTOR / TESTED FOR****Business Name:** cbdMD**License Number:****Address:****SAMPLE DETAIL****Batch Number:** 230174**Sample ID:** 230515S017**Date Collected:** 05/15/2023**Date Received:** 05/15/2023**Batch Size:****Sample Size:** 1.0 units**Unit Mass:****Serving Size:** 1 grams per ServingScan QR code to verify
authenticity of results.**SAFETY ANALYSIS - SUMMARY****Microbiology (PCR): ND**

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)

LQC verified by: Michael Pham
Job Title: Senior Laboratory Analyst
Date: 05/17/2023Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 05/17/2023



Microbiology Analysis

PCR

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

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 05/17/2023 ND

COMPOUND	RESULT
<i>Listeria monocytogenes</i>	ND