

SAMPLE NAME: 1500mg Sleep Red Raspberry Gummies

Infused, Solid Edible

CULTIVATOR/ MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: cbdMD
License Number:
Address:

SAMPLE DETAIL

Batch Number: 91554
Sample ID: 240119M001

Date Collected: 01/19/2024
Date Received: 01/19/2024
Batch Size:
Sample Size: 10.0 units
Unit Mass: 6.4 grams per Unit
Serving Size: 6.4 grams per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 2.445 mg/unit

Total CBD: 62.880 mg/unit

Sum of Cannabinoids: 67.392 mg/unit

Total Cannabinoids: 67.392 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 = $i\text{-}\delta\text{-THC} + (\text{THCa} \cdot 0.877)$
Total CBD = $\text{CBD} + (\text{CBDa} \cdot 0.877)$
Sum of Cannabinoids = $i\text{-}\delta\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + i\text{-}\delta\text{-THC} + \text{CBL} + \text{CBN}$
Total Cannabinoids = $(i\text{-}\delta\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + i\text{-}\delta\text{-THC} + \text{CBL} + \text{CBN}$

SAFETY ANALYSIS - SUMMARY

6⁹-THC per Unit: (2)PASS

Mycotoxins: 0PASS

Foreign Material: 0 PASS

6⁹-THC per Serving: (2)PASS

Residual Solvents: 0 PASS

Water Activity: G?PASS

Pesticides: (2) PASS


Heavy Metals: 0 PASS

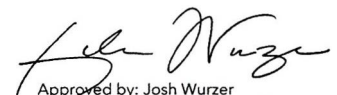
For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

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: 01/26/2024


Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 01/26/2024

Amendment to Certificate of Analysis 240119M001-002



n Cannabinoid Analysis

CANNABINOID TEST RESULTS - 01/20/2024

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 • Analysis of Cannabinoids by HPLC/DAD

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 I 0.011	±0.3665	9.825	0.9825
6 ⁹ -THC	0.002/0.014	±0.0210	0.382	0.0382
CBG	0.002 I 0.006	±0.0094	0.194	0.0194
CBN	0.001 / 0.007	±0.0025	0.087	0.0087
CBDV	0.00210.012	±0.0017	0.042	0.0042
6 ⁸ -THC	0.0110.02	NIA	ND	ND
THCa	0.00110.005	NIA	ND	ND
THCV	0.00210.012	NIA	ND	ND
THCVa	0.00210.019	NIA	ND	ND
CBDa	0.00110.026	NIA	ND	ND
CBDVa	0.001 / 0.018	NIA	ND	ND
CBGa	0.00210.007	NIA	ND	ND
CBL	0.00310.010	NIA	ND	ND
CBC	0.003/0.010	NIA	ND	ND
CBCa	0.00110.015	NIA	ND	ND
SUM OF CANNABINOIDS			10.530 mg/g	1.053%

TOTAL THC: 2.445 mg/unit

Total THC (6⁹-THC + 0.877*THCa)

TOTAL CBD: 62.880 mg/unit

Total CBD (CBD + 0.877*CBDa)

TOTAL CANNABINOIDS: 67.392 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + 11⁸-THC + CBL + CBN

TOTAL CBG: 1.242 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: 0.269 mg/unit

Total CBDV (CBDV + 0.877*CBDVa)

Unit Mass: 6.4 grams per Unit/ Serving Size: 6.4 grams per Serving

6 ⁹ -THC per Unit	110 per-package limit	2.445 mg/unit	PASS
6 ⁹ -THC per Serving		2.445 mg/serving	PASS
Total THC per Unit		2.445 mg/unit	
Total THC per Serving		2.445 mg/serving	
CBD per Unit		62.880 mg/unit	
CBD per Serving		62.880 mg/serving	
Total CBD per Unit		62.880 mg/unit	
Total CBD per Serving		62.880 mg/serving	
Sum of Cannabinoids per Unit		67.392 mg/unit	
Sum of Cannabinoids per Serving		67.392 mg/serving	
Total Cannabinoids per Unit		67.392 mg/unit	
Total Cannabinoids per Serving		67.392 mg/serving	



Pesticide Analysis

PESTICIDE TEST RESULTS- 01/26/2024 **PASS**

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

COMPOUND	LOD/LOQ (119/9)	ACTION LIMIT (119/9)	MEASUREMENT UNCERTAINTY (119/9)	RESULT (119/9)	RESULT
Abamectin	0.0310.10	0.3	NIA	ND	PASS
Acephate	0.02/0.07	5	NIA	ND	PASS
Acequinocyl	0.0210.07	4	NIA	ND	PASS
Acetamiprid	0.0210.05	5	NIA	ND	PASS
Aldicarb	0.0310.08	2LOD	NIA	ND	PASS
Azoxystrobin	0.02/0.07	40	NIA	ND	PASS
Bifenazate	0.0110.04	5	NIA	ND	PASS
Bifenthrin	0.02/0.05	0.5	NIA	ND	PASS
Boscalid	0.0310.09	10	NIA	ND	PASS
Captan	0.1910.57	5	NIA	ND	PASS
Carbaryl	0.02/0.06	0.5	NIA	ND	PASS
Carbofuran	0.02/0.05	2LOD	NIA	ND	PASS
Chlorantraniliprole	0.0410.12	40	NIA	ND	PASS
Chlordane*	0.03/0.08	2LOD	NIA	ND	PASS
Chlorfenapyr*	0.03/0.10	2LOD	NIA	ND	PASS
Chlorpyrifos	0.0210.06	2LOD	NIA	ND	PASS
Clofentezine	0.03/0.09	0.5	NIA	ND	PASS
Coumaphos	0.02/0.07	2LOD	NIA	ND	PASS
Cyfluthrin	0.1210.38	1	NIA	ND	PASS
Cypermethrin	0.1110.32	1	NIA	ND	PASS
Daminozide	0.0210.07	2LOD	NIA	ND	PASS
Diazinon	0.0210.05	0.2	NIA	ND	PASS
Dichlorvos (DDVP)	0.0310.09	2LOD	NIA	ND	PASS
Dimethoate	0.03/0.08	2LOD	NIA	ND	PASS
Dimethomorph	0.0310.09	20	NIA	ND	PASS
Ethoprophos	0.03/0.10	2LOD	NIA	ND	PASS
Etofenprox	0.02/0.06	2LOD	NIA	ND	PASS
Etoxazole	0.02/0.06	1.5	NIA	ND	PASS
Fenhexamid	0.03/0.09	10	NIA	ND	PASS
Fenoxycarb	0.0310.08	2LOD	NIA	ND	PASS
Fenpyroximate	0.02/0.06	2	NIA	ND	PASS
Fipronil	0.0310.08	2LOD	NIA	ND	PASS
Fonicamid	0.03/0.10	2	NIA	ND	PASS
Fludioxonil	0.0310.10	30	NIA	ND	PASS
Hexythiazox	0.0210.07	2	NIA	ND	PASS
Imazalil	0.0210.06	2LOD	NIA	ND	PASS
Imidacloprid	0.0410.11	3	NIA	ND	PASS
Kresoxim-methyl	0.02/0.07	1	NIA	ND	PASS
Malathion	0.0310.09	5	NIA	ND	PASS
Metalaxyl	0.02/0.07	1.5	NIA	ND	PASS
Methiocarb	0.0210.07	2LOD	NIA	ND	PASS

Continued on next page



Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 01/26/2024 *continued* **PASS**

COMPOUND	LOD/LOQ (119/9)	ACTION LIMIT (119/9)	MEASUREMENT UNCERTAINTY (119/9)	RESULT (119/9)	RESULT
Methomyl	0.03/0.10	01	NIA	ND	PASS
Mevinphos	0.03 I 0.09	∞;LOO	NIA	ND	PASS
Myclobutanil	0.03/0.09	9	NIA	ND	PASS
Naled	0.02/0.07	0.5	NIA	ND	PASS
Oxamyl	0.04/0.11	0.2	NIA	ND	PASS
Paclobutrazol	0.02/0.05	∞;LOO	NIA	ND	PASS
Parathion-methyl	0.03/0.10	∞;LOO	NIA	ND	PASS
Pentachloronitrobenzene*	0.03/0.09	0.2	NIA	ND	PASS
Permethrin	0.04/0.12	20	NIA	ND	PASS
Phosmet	0.03/0.10	0.2	NIA	ND	PASS
Piperonyl Butoxide	0.02/0.07	8	NIA	ND	PASS
Prallethrin	0.03/0.08	0.4	NIA	ND	PASS
Propiconazole	0.02/0.07	20	NIA	ND	PASS
Propoxur	0.03/0.09	∞;LOO	NIA	ND	PASS
Pyrethrins	0.04/0.12	1	NIA	ND	PASS
Pyridaben	0.02/0.07	3	NIA	ND	PASS
Spinetoram	0.02/0.07	3	NIA	ND	PASS
Spinosad	0.02/0.07	3	NIA	ND	PASS
Spiromesifen	0.02/0.05	12	NIA	ND	PASS
Spirotetramat	0.02/0.06	13	NIA	ND	PASS
Spiroxamine	0.03/0.08	∞;LOO	NIA	ND	PASS
Tebuconazole	0.02/0.07	2	NIA	ND	PASS
Thiacloprid	0.03/0.10	∞;LOO	NIA	ND	PASS
Thiamethoxam	0.03/0.10	4.5	NIA	ND	PASS
Trifloxystrobin	0.03/0.08	30	NIA	ND	PASS

Mycotoxin Analysis

MYCOTOXIN TEST RESULTS - 01/26/2024 (12) **PASS**

COMPOUND	LOD/LOQ (119/10)	ACTION LIMIT (119/10)	MEASUREMENT UNCERTAINTY (119/10)	RESULT (119/10)	RESULT
Aflatoxin 8I	2.0/6.0		NIA	ND	
Aflatoxin 82	1.8/5.6		NIA	ND	
Aflatoxin G1	1.0/3.1		NIA	ND	
Aflatoxin G2	1.2/3.5		NIA	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 I 19.2	20	NIA	ND	PASS

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

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



61 Residual Solvents Analysis

RESIDUAL SOLVENTS TEST RESULTS- 01/24/2024 **U PASS**

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

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

COMPOUND	LOD/LOQ (1,19/9)	ACTION LIMIT (1,19/9)	MEASUREMENT UNCERTAINTY (1,19/9)	RESULT (1,19/9)	RESULT
Propane	10120	5000	N/A	ND	PASS
n-Butane	10/50	5000	N/A	ND	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
n-Hexane	215	290	N/A	ND	PASS
n-Heptane	20/60	5000	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Toluene	7121	890	N/A	ND	PASS
Total Xylenes	501160	2170	N/A	ND	PASS
Methanol	501200	3000	N/A	ND	PASS
Ethanol	20150	5000	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	10140	5000	N/A	ND	PASS
Acetone	20150	5000	N/A	ND	PASS
Ethyl Ether	20150	5000	N/A	ND	PASS
Ethylene Oxide	0.310.8	1	N/A	ND	PASS
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Chloroform	0.110.2	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.310.9	1	N/A	ND	PASS
Trichloroethylene	0.110.3	1	N/A	ND	PASS
1,2-Dichloroethane	0.05/0.1	1	N/A	ND	PASS
Acetonitrile	217	410	N/A	ND	PASS

§ Heavy Metals Analysis

HEAVY METALS TEST RESULTS- 01/23/2024 **Q PASS**

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

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

COMPOUND	LOD/LOQ (1,19/9)	ACTION LIMIT (1,19/9)	MEASUREMENT UNCERTAINTY (1,19/9)	RESULT (1,19/9)	RESULT
Arsenic	0.0210.1	15	N/A	ND	PASS
Cadmium	0.0210.05	0.5	N/A	ND	PASS
Lead	0.04/0.1	0.5	N/A	ND	PASS
Mercury	0.00210.01	3	N/A	ND	PASS

r. (Foreign Material Analysis

FOREIGN MATERIAL TEST RESULTS- 01/23/2024 **Q PASS**

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

COMPOUND	ACTION LIMIT	RESULT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	None	PASS
Total Sample Area Covered by Mold	>25%	None	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	None	PASS
Insect Fragment Count	> 1 per 3 grams	0.0	PASS
Hair Count	> 1 per 3 grams	0.0	PASS

Continued on next page



 **Foreign Material Analysis** *Continued*

FOREIGN MATERIAL TEST RESULTS - 01/23/2024 *continued* (0 PASS)

COMPOUND	ACTION LIMIT	RESULT	RESULT
Mammalian Excreta Count	> 1 per 3 grams	0.0	PASS

(5} Water Activity Analysis

WATER ACTIVITY TEST RESULTS - 01/26/2024 (0 PASS)

Method: QSP 1227 •Analysis of Water Activity in Cannabis
 Ind Cannabis Products

COMPOUND	LOD/LOQ (Aw)	ACTION LIMIT (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)	RESULT
Water Activity	0.03010.15	0.85	:t0,037	0.75	PASS

NOTES

Reason for Amendment: Unit/Serving Mass Change, Add/Remove
 Test(s)

SAMPLE NAME: 1500mg Sleep Red Raspberry Gummies

Infused, Solid Edible

CULTIVATOR/ MANUFACTURER

Business Name:

License Number:

Address:

DISTRIBUTOR / TESTED FOR

Business Name: cbdMD

License Number:

Address:

SAMPLE DETAIL

Batch Number: 91554

Sample ID: 240123L022

Date Collected: 01/23/2024

Date Received: 01/23/2024

Batch Size:

Sample Size: 1.0 units

Unit Mass:

Serving Size: 6.4 grams per Serving



Scan QR code to verify authenticity of results.

SAFETY ANALYSIS • SUMMARY

Microbiology (PCR): **G:PASS**

Microbiology (Plating): **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).
too numerous to count >250 du/plate (TNTC), colony-forming unit (cfu)

L9c.verify
L9c.verify ; Kelsey Cochran
Job Title: Laboratory Technician I
Date: 01/27/2024

Josh Wurzer
Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 01/27/2024



Microbiology Analysis

PCR AND PLATING

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

Method: QSP 1221 • Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR)- 01/27/2024 (0 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS
<i>Salmonella spp.</i>	Not Detected in 1g	ND	PASS
<i>Listeriamonocytogenes</i>		ND	

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794. Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 01/27/2024 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND
Coliforms	ND