

## **Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS**

**DATE ISSUED 03/16/2024** 

**SAMPLE NAME: Lemon Tropical Twist Gummy** 

Infused, Solid Edible

**CULTIVATOR / MANUFACTURER** 

**Business Name:** License Number: Address:

SAMPLE DETAIL

Batch Number: 91565-L Sample ID: 240306M004 **DISTRIBUTOR / TESTED FOR** 

Business Name: cbdMD License Number: Address:

Date Collected: 03/06/2024 Date Received: 03/06/2024

Batch Size:

Sample Size: 8.0 units Unit Mass: 3.2 grams per Unit Serving Size: 3.2 grams per Serving





Scan QR code to verify authenticity of results

#### CANNABINOID ANALYSIS - SUMMARY

Total THC: 2.445 mg/unit

Total CBD: 116.582 mg/unit

Sum of Cannabinoids: 121.085 mg/unit

Total Cannabinoids: 121.085 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 =  $\Delta^9$ -THC + (THCa (0.877))

Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids =  $\Delta^9$ -THC + THCa + CBD + CBDa + CBG + CBGa + 
$$\label{eq:thm:condition} \begin{split} THCV + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta^6. THC + CBL + CBN \\ Total Cannabinoids = (\Delta^9. THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBC$$

(CBDV+0.877\*CBDVa) +  $\Delta$ <sup>8</sup>-THC + CBL + CBN

#### SAFETY ANALYSIS - SUMMARY

Δ9-THC per Unit: 

PASS

 $\Delta^9$ -THC per Serving:  $\bigcirc$  PASS

Pesticides: PASS

Mycotoxins: **⊘PASS** 

Residual Solvents: 

PASS

Heavy Metals: **⊘PASS** 

Foreign Material: 

PASS

Water Activity: 

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: Carmen Stackhouse Job Title: Senior Laboratory Analyst Date: 03/16/2024

Approved by: Josh Wurzer

Job Title: Chief Compliance Officer
Date: 03/16/2024

Amendment to Certificate of Analysis 240306M004-001

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## Hemp Quality Assurance Testing

## **CERTIFICATE OF ANALYSIS**



LEMON TROPICAL TWIST GUMMY | DATE ISSUED 03/16/2024



## Cannabinoid Analysis

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

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 2.445 mg/unit Total THC ( $\Delta^9$ -THC+0.877\*THCa)

TOTAL CBD: 116.582 mg/unit Total CBD (CBD+0.877\*CBDa)

### TOTAL CANNABINOIDS: 121.085 mg/unit

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

## TOTAL CBG: 0.634 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: 0.854 mg/unit

Total CBDV (CBDV+0.877\*CBDVa)

#### **CANNABINOID TEST RESULTS - 03/07/2024**

COMPOUND	MPOUND		OUND		RESULT (mg/g)	RESULT (%)
CBD	0.004/0.011	±1.3589	36.432	3.6432		
Δ <sup>9</sup> -THC	0.002/0.014	±0.0419	0.764	0.0764		
CBDV	0.002/0.012	±0.0109	0.267	0.0267		
CBG	0.002 / 0.006	±0.0096	0.198	0.0198		
CBN	0.001 / 0.007	±0.0051	0.178	0.0178		
Δ <sup>8</sup> -THC	0.01/0.02	N/A	ND	ND		
THCa	0.001 / 0.005	N/A	ND	ND		
THCV	0.002/0.012	N/A	ND	ND		
THCVa	0.002/0.019	N/A	ND	ND		
CBDa	0.001 / 0.026	N/A	ND	ND		
CBDVa	0.001/0.018	N/A	ND	ND		
CBGa	0.002/0.007	N/A	ND	ND		
CBL	0.003/0.010	N/A	ND	ND		
СВС	0.003/0.010	N/A	ND	ND		
CBCa	0.001 / 0.015	N/A	ND	ND		
SUM OF CANNA	ABINOIDS		37.839 mg/g	3.7839%		

### Unit Mass: 3.2 grams per Unit / Serving Size: 3.2 grams per Serving

$\Delta^9$ -THC per Unit	110 per-package limit	2.445 mg/unit	PASS
Δ°-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	116.582 mg/unit		
CBD per Serving	116.582 mg/serving		
Total CBD per Unit	116.582 mg/unit		
Total CBD per Serving		116.582 mg/serving	
Sum of Cannabinoids per Unit	121.085 mg/unit		
Sum of Cannabinoids per Serving 121.085 mg/serving			
Total Cannabinoids per Unit		121.085 mg/unit	
Total Cannabinoids per Serving	2	121.085 mg/serving	



# Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS



LEMON TROPICAL TWIST GUMMY | DATE ISSUED 03/16/2024



## **Pesticide Analysis**

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

 $\star$ 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

### PESTICIDE TEST RESULTS - 03/12/2024 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Abamectin	0.03 / 0.10	0.3	N/A	ND	PASS
Acephate	0.02 / 0.07	5	N/A	ND	PASS
Acequinocyl	0.02/0.07	4	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	5	N/A	ND	PASS
Aldicarb	0.03/0.08	≥LOD	N/A	ND	PASS
Azoxystrobin	0.02/0.07	40	N/A	ND	PASS
Bifenazate	0.01 / 0.04	5	N/A	ND	PASS
Bifenthrin	0.02/0.05	0.5	N/A	ND	PASS
Boscalid	0.03/0.09	10	N/A	ND	PASS
Captan	0.19/0.57	5	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Carbofuran	0.02 / 0.05	≥LOD	N/A	ND	PASS
Chlorantraniliprole	0.04 / 0.12	40	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
Clofentezine	0.03 / 0.09	0.5	N/A	ND	PASS
Coumaphos	0.02/0.07	≥LOD	N/A	ND	PASS
Cyfluthrin	0.12/0.38	1	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Daminozide	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥LOD	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	20	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	≥LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	≥LOD	N/A	ND	PASS
Etoxazole	0.02 / 0.06	1.5	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	10	N/A	ND	PASS
Fenoxycarb	0.03 / 0.08	≥LOD	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	2	N/A	ND	PASS
Fipronil	0.03 / 0.08	≥LOD	N/A	ND	PASS
Flonicamid	0.03 / 0.10	2	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	30	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	2	N/A	ND	PASS
lmazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	3	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	1	N/A	ND	PASS
Malathion	0.03 / 0.09	5	N/A	ND	PASS
Metalaxyl	0.02 / 0.07	15	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND	PASS

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## **Hemp Quality Assurance Testing**

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## Pesticide Analysis Continued

### PESTICIDE TEST RESULTS - 03/12/2024 continued PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Methomyl	0.03 / 0.10	0.1	N/A	ND	PASS
Mevinphos	0.03 / 0.09	≥LOD	N/A	ND	PASS
Myclobutanil	0.03/0.09	9	N/A	ND	PASS
Naled	0.02 / 0.07	0.5	N/A	ND	PASS
Oxamyl	0.04/0.11	0.2	N/A	ND	PASS
Paclobutrazol	0.02/0.05	≥LOD	N/A	ND	PASS
Parathion-methyl	0.03/0.10	≥LOD	N/A	ND	PASS
Pentachloronitrobenzene*	0.03/0.09	0.2	N/A	ND	PASS
Permethrin	0.04/0.12	20	N/A	ND	PASS
Phosmet	0.03/0.10	0.2	N/A	ND	PASS
Piperonyl Butoxide	0.02/0.07	8	N/A	ND	PASS
Prallethrin	0.03/0.08	0.4	N/A	ND	PASS
Propiconazole	0.02 / 0.07	20	N/A	ND	PASS
Propoxur	0.03/0.09	≥LOD	N/A	ND	PASS
Pyrethrins	0.04/0.12	1	N/A	ND	PASS
Pyridaben	0.02/0.07	3	N/A	ND	PASS
Spinetoram	0.02/0.07	3	N/A	ND	PASS
Spinosad	0.02/0.07	3	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	12	N/A	ND	PASS
Spirotetramat	0.02/0.06	13	N/A	ND	PASS
Spiroxamine	0.03/0.08	≥ LOD	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	2	N/A	ND	PASS
Thiacloprid	0.03/0.10	≥LOD	N/A	ND	PASS
Thiamethoxam	0.03/0.10	4.5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	30	N/A	ND	PASS



## Mycotoxin Analysis

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 - 03/12/2024 PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0 / 3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5	=	N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS



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## 🖏 Residual Solvents Analysis

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

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

### RESIDUAL SOLVENTS TEST RESULTS - 03/12/2024 @ PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Propane	10/20	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	2/5	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	7/21	890	N/A	ND	PASS
Total Xylenes	50/160	2170	N/A	ND	PASS
Methanol	50/200	3000	N/A	ND	PASS
Ethanol	20/50	5000	±1.7	58	PASS
2-Propanol (Isopropyl Alcohol)	10/40	5000	N/A	ND	PASS
Acetone	20/50	5000	N/A	ND	PASS
Ethyl Ether	20/50	5000	N/A	ND	PASS
Ethylene Oxide	0.3/0.8	1	N/A	ND	PASS
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Chloroform	0.1/0.2	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.3/0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Acetonitrile	2/7	410	N/A	ND	PASS



## **Heavy Metals Analysis**

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

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

#### **HEAVY METALS TEST RESULTS - 03/14/2024 PASS**

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02 / 0.1	1.5	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.5	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	<loq< td=""><td>PASS</td></loq<>	PASS
Mercury	0.002 / 0.01	3	N/A	ND	PASS



# Foreign Material Analysis

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

### FOREIGN MATERIAL TEST RESULTS - 03/12/2024 PASS

ACTION LIMIT	RESULT	RESULT
>25%	None	PASS
>25%	None	PASS
>25%	None	PASS
> 1 per 3 grams	0.0	PASS
> 1 per 3 grams	0.0	PASS
	>25% >25% >25% >1 per 3 grams	>25% None >25% None >25% None >25% None >1 per 3 grams 0.0

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### FOREIGN MATERIAL TEST RESULTS - 03/12/2024 continued PASS

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

## Water Activity Analysis

WATER ACTIVITY TEST RESULTS - 03/16/2024 OPASS

Method: QSP 1227 - Analysis of Water Activity in Cannabis

COMPOUND	LOD/LOQ (Aw)	ACTION LIMIT (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)	RESULT
Water Activity	0.030 / 0.15	0.85	±0.034	0.70	PASS

NOTES

Reason for Amendment: Add/Remove Test(s)