



# CERTIFICATE OF ANALYSIS

Not for Regulatory Compliance

Date: Feb 17, 2023

Overall Result



PASS

Botanical Brewing Company

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## Gummy Bear Delta 8

Edible Liquid



### SAMPLE INFORMATION

Sample ID: CTND-230215-004

Sample Name: Gummy Bear Delta 8

Matrix: Edible Liquid

Batch No.: 655

Retail Batch Date: Feb 01, 2023

Sample Size: 340 ml

Serving Size: 340 g

Cultivar(s): N/A

Cultivation Facility: Botanical Brewing Co

Production Facility: Botanical Brewing Co

Date Collected: Feb 15, 2023

Date Received: Feb 15, 2023

Received By: Adriana S. Ramirez

### Cannabinoids

TOTAL CANNABINOIDS

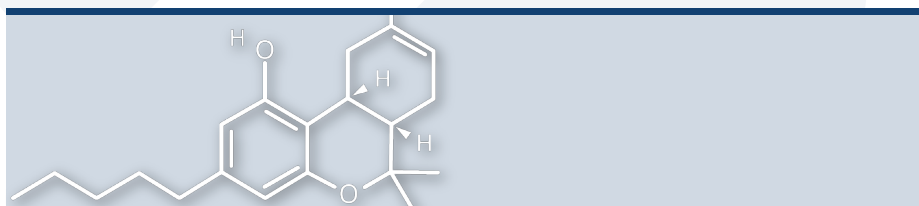
0.01%

TOTAL THC

< LOQ

TOTAL CBD

0%



Cannabinoids



PASS

Heavy Metals



TESTED

Microbials



TESTED

Total Contaminant Load



PASS

Foreign Matter



NOT TESTED

Moisture Content



NOT TESTED

Mycotoxins



NOT TESTED

Pesticides



NOT TESTED

Residual Solvents



NOT TESTED

Terpenes



NOT TESTED

Water Activity



NOT TESTED



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 Laboratory Director  
 Feb 17, 2023

*L. Metzgar*

Lovelie Metzgar  
 Quality Manager  
 Feb 17, 2023



# Gummy Bear Delta 8

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Date: Feb 17, 2023

Sample ID: CTND-230215-004

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## Cannabinoids

Testing Method: CTND-FL-SOP-P-001, CTND-FL-SOP-P-002: Cannabinoids by HPLC-PDA

PASS

| Analyte             | Dilution | LOD     | LOQ     | Results | Results | Results |
|---------------------|----------|---------|---------|---------|---------|---------|
|                     | 1:n      | mg/g    | mg/g    | %       | mg/g    | mg/pkg  |
| CBC                 | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| CBD                 | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| CBDA                | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| CBDV                | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| CBG                 | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| CBGA                | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| CBN                 | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| Δ <sup>8</sup> -THC | 10       | 0.00200 | 0.00500 | 0.00569 | 0.0569  |         |
| Δ <sup>9</sup> -THC | 10       | 0.00200 | 0.00500 | < LOQ   | < LOQ   |         |
| THCA                | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| THCV                | 10       | 0.00200 | 0.00500 | ND      | ND      |         |
| Total THC           |          |         |         | < LOQ   | < LOQ   |         |
| Total CBD           |          |         |         | ND      | ND      |         |

Prepared By: 10  
Prep Date: Feb 15, 2023  
19:30:00 UTC  
Prep Weight: 9.722 Grams

Analyzed By: 10  
Analysis Date: Feb 16, 2023  
14:00:00 UTC  
Lab Batch #: 64230215P, P230021

Reviewed By: 14  
Review Date: Feb 16, 2023  
14:20:00 UTC

## Foreign Matter

Testing Method: Foreign Matter

NOT TESTED

| Analyte | Limit | Results | Status |
|---------|-------|---------|--------|
| Feces   |       | NT      | N/A    |
| Filth   |       | NT      | N/A    |

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Mycotoxins

Testing Method: Mycotoxins

NOT TESTED

| Analyte      | Dilution | LOD | LOQ | Limit | Results | Status |
|--------------|----------|-----|-----|-------|---------|--------|
|              | 1:n      |     |     | ppb   |         |        |
| Aflatoxin B1 |          |     |     |       | NT      | N/A    |
| Aflatoxin B2 |          |     |     |       | NT      | N/A    |
| Aflatoxin G1 |          |     |     |       | NT      | N/A    |
| Aflatoxin G2 |          |     |     |       | NT      | N/A    |
| Ochratoxin A |          |     |     |       | NT      | N/A    |
| Aflatoxins   |          |     |     |       | NT      | N/A    |

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Terpenes

Testing Method: Terpenes

NOT TESTED

| Analyte                 | Dilution | LOD | LOQ | Results | Results |
|-------------------------|----------|-----|-----|---------|---------|
|                         | 1:n      |     |     | %       |         |
| (-)-Caryophyllene oxide |          |     |     |         | NT      |
| (-)-Guaiaol             |          |     |     |         | NT      |
| (-)-Isopulegol          |          |     |     |         | NT      |
| (-)-α-Bisabolol         |          |     |     |         | NT      |
| 1,8-Cineole             |          |     |     |         | NT      |
| Camphene                |          |     |     |         | NT      |
| Δ <sup>3</sup> -Carene  |          |     |     |         | NT      |
| Geraniol                |          |     |     |         | NT      |
| Linalool                |          |     |     |         | NT      |
| Terpinolene             |          |     |     |         | NT      |
| α-Humulene              |          |     |     |         | NT      |
| α-Pinene                |          |     |     |         | NT      |
| α-Terpinene             |          |     |     |         | NT      |
| β-Caryophyllene         |          |     |     |         | NT      |
| β-Myrcene               |          |     |     |         | NT      |
| β-Pinene                |          |     |     |         | NT      |
| cis-Nerolidol           |          |     |     |         | NT      |
| cis-β-Ocimene           |          |     |     |         | NT      |
| d-Limonene              |          |     |     |         | NT      |
| γ-Terpinene             |          |     |     |         | NT      |
| p-Cymene                |          |     |     |         | NT      |
| trans-Nerolidol         |          |     |     |         | NT      |
| trans-β-Ocimene         |          |     |     |         | NT      |

Total Terpenes ND ND

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Moisture Content

Testing Method: Moisture Content

NOT TESTED

| Analyte  | Limit | Results | Status |
|----------|-------|---------|--------|
| Moisture |       | NT      | N/A    |

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Water Activity

Testing Method: Water Activity

NOT TESTED

| Analyte        | Limit | Results | Status |
|----------------|-------|---------|--------|
| Water Activity |       | NT      | N/A    |

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A



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Luis Jimenez  
Laboratory Director  
Feb 17, 2023

Lovell Metzgar  
Quality Manager  
Feb 17, 2023

Definitions and Equations: Total THC = THCa\*0.877 + d9-THC, Total CBD = CBDa\*0.877 + CBD, LOQ = Limit of Quantification, LOD = Limit of Detection, NT = Not Tested, ND = Not Detected. This report, and all results within, relates only to the product submitted and tested, and may not be reproduced without written approval from Certified Testing and Data (CTND). CTND has been accredited by an unbiased thirdparty agency to ISO 17025 standards.



# Gummy Bear Delta 8

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Date: Feb 17, 2023

Sample ID: CTND-230215-004

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## Pesticides

Testing Method: Pesticides

NOT TESTED

| Analyte                  | Dilution | LOD | LOQ | Limit | Results | Status |
|--------------------------|----------|-----|-----|-------|---------|--------|
|                          | 1:n      |     |     | ppb   |         |        |
| Abamectin                |          |     |     |       | NT      | N/A    |
| Acephate                 |          |     |     |       | NT      | N/A    |
| Acequinocyl              |          |     |     |       | NT      | N/A    |
| Acetamiprid              |          |     |     |       | NT      | N/A    |
| Aldicarb                 |          |     |     |       | NT      | N/A    |
| Azoxystrobin             |          |     |     |       | NT      | N/A    |
| Bifenazate               |          |     |     |       | NT      | N/A    |
| Bifenthrin               |          |     |     |       | NT      | N/A    |
| Boscalid                 |          |     |     |       | NT      | N/A    |
| Captan                   |          |     |     |       | NT      | N/A    |
| Carbaryl                 |          |     |     |       | NT      | N/A    |
| Carbofuran               |          |     |     |       | NT      | N/A    |
| Chlorantranil-<br>iprole |          |     |     |       | NT      | N/A    |
| Chlordane                |          |     |     |       | NT      | N/A    |
| Chlorfenapyr             |          |     |     |       | NT      | N/A    |
| Chlormequat chloride     |          |     |     |       | NT      | N/A    |
| Chlorpyrifos             |          |     |     |       | NT      | N/A    |
| Clofentezine             |          |     |     |       | NT      | N/A    |
| Coumaphos                |          |     |     |       | NT      | N/A    |
| Cyfluthrin               |          |     |     |       | NT      | N/A    |
| Cypermethrin             |          |     |     |       | NT      | N/A    |
| Daminozide               |          |     |     |       | NT      | N/A    |
| Diazinon                 |          |     |     |       | NT      | N/A    |
| Dichlorvos               |          |     |     |       | NT      | N/A    |
| Dimethoate               |          |     |     |       | NT      | N/A    |
| Dimethomorph E           |          |     |     |       | NT      | N/A    |
| Dimethomorph Z           |          |     |     |       | NT      | N/A    |
| Ethoprophos              |          |     |     |       | NT      | N/A    |
| Etofenprox               |          |     |     |       | NT      | N/A    |
| Etoxazole                |          |     |     |       | NT      | N/A    |
| Fenhexamid               |          |     |     |       | NT      | N/A    |
| Fenoxycarb               |          |     |     |       | NT      | N/A    |
| Fenpyroximate            |          |     |     |       | NT      | N/A    |
| Fipronil                 |          |     |     |       | NT      | N/A    |
| Flonicamid               |          |     |     |       | NT      | N/A    |
| Fludioxonil              |          |     |     |       | NT      | N/A    |
| Hexythiazox              |          |     |     |       | NT      | N/A    |
| Imazalil                 |          |     |     |       | NT      | N/A    |

| Analyte                      | Dilution | LOD | LOQ | Limit | Results | Status |
|------------------------------|----------|-----|-----|-------|---------|--------|
|                              | 1:n      |     |     | ppb   |         |        |
| Imidacloprid                 |          |     |     |       | NT      | N/A    |
| Kresoxim-<br>methyl          |          |     |     |       | NT      | N/A    |
| Malathion                    |          |     |     |       | NT      | N/A    |
| Metalaxyl                    |          |     |     |       | NT      | N/A    |
| Methiocarb                   |          |     |     |       | NT      | N/A    |
| Methomyl                     |          |     |     |       | NT      | N/A    |
| Methyl parathion             |          |     |     |       | NT      | N/A    |
| Mevinphos                    |          |     |     |       | NT      | N/A    |
| Myclobutanil                 |          |     |     |       | NT      | N/A    |
| Naled                        |          |     |     |       | NT      | N/A    |
| Oxamyl                       |          |     |     |       | NT      | N/A    |
| Pacllobutrazol               |          |     |     |       | NT      | N/A    |
| Pentachloroni-<br>trobenzene |          |     |     |       | NT      | N/A    |
| Permethrin cis               |          |     |     |       | NT      | N/A    |
| Permethrin trans             |          |     |     |       | NT      | N/A    |
| Phosmet                      |          |     |     |       | NT      | N/A    |
| Piperonylbuto-<br>xide       |          |     |     |       | NT      | N/A    |
| Prallethrin                  |          |     |     |       | NT      | N/A    |
| Propiconazole                |          |     |     |       | NT      | N/A    |
| Propoxur                     |          |     |     |       | NT      | N/A    |
| Pyrethrins Cinerin I         |          |     |     |       | NT      | N/A    |
| Pyrethrins Cinerin II        |          |     |     |       | NT      | N/A    |
| Pyrethrins Jasmolin I        |          |     |     |       | NT      | N/A    |
| Pyrethrins Jasmolin II       |          |     |     |       | NT      | N/A    |
| Pyrethrins Pyrethrin I       |          |     |     |       | NT      | N/A    |
| Pyrethrins Pyrethrin II      |          |     |     |       | NT      | N/A    |
| Pyridaben                    |          |     |     |       | NT      | N/A    |
| Spinetoram                   |          |     |     |       | NT      | N/A    |
| Spinosad A                   |          |     |     |       | NT      | N/A    |
| Spinosad D                   |          |     |     |       | NT      | N/A    |
| Spiromesifen                 |          |     |     |       | NT      | N/A    |
| Spirotetramat                |          |     |     |       | NT      | N/A    |
| Spiroxamine                  |          |     |     |       | NT      | N/A    |
| Tebuconazole                 |          |     |     |       | NT      | N/A    |
| Thiacloprid                  |          |     |     |       | NT      | N/A    |
| Thiamethoxam                 |          |     |     |       | NT      | N/A    |
| Trifloxystrob-<br>in         |          |     |     |       | NT      | N/A    |

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

## Heavy Metals

Testing Method: CTND-FL-SOP-M-001: Heavy Metals by ICP-MS

TESTED

| Analyte | Dilution | LOD  | LOQ | Limit | Results | Status |
|---------|----------|------|-----|-------|---------|--------|
|         | 1:n      | ppb  | ppb | ppb   | ppb     |        |
| Lead    | 1        | 50.0 | 250 | 500   | ND      | N/A    |
| Arsenic | 1        | 20.0 | 100 | 1500  | ND      | N/A    |

| Analyte | Dilution | LOD  | LOQ | Limit | Results | Status |
|---------|----------|------|-----|-------|---------|--------|
|         | 1:n      | ppb  | ppb | ppb   | ppb     |        |
| Cadmium | 1        | 20.0 | 100 | 500   | ND      | N/A    |
| Mercury | 1        | 20.0 | 100 | 3000  | < LOQ   | N/A    |

Prepared By: 14, 14  
Prep Date: Feb 15, 2023 17:00:00 UTC  
Prep Weight: 0.503 Grams

Analyzed By: 14  
Analysis Date: Feb 15, 2023 20:59:00 UTC  
Lab Batch #: M230007

Reviewed By: 14  
Review Date: Feb 15, 2023 21:00:00 UTC

Total Contaminant Load: 0 ppm | Action Limit: 30 ppm

PASS



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Feb 17, 2023



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Quality Manager  
Feb 17, 2023



# Gummy Bear Delta 8

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Date: Feb 17, 2023

Sample ID: CTND-230215-004

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## Microbials

TESTED

| Analyte         | Limit             | Results | Status |
|-----------------|-------------------|---------|--------|
| Salmonella spp. | Any amt in 1 gram | Absent  | N/A    |

Testing & Prep Method:  
CTND-FL-SOP-B-002: Salmonella Analysis

|                    |  |                         |  |
|--------------------|--|-------------------------|--|
| Prepared By:<br>12 | Prep Date:<br>Feb 15, 2023<br>17:10:00 UTC     | Reviewed By:<br>6       | Review Date:<br>Feb 17, 2023<br>21:13:00 UTC |
| Analyzed By:<br>12 | Analysis Date:<br>Feb 16, 2023<br>17:09:00 UTC | Lab Batch #:<br>B230033 |  |

| Analyte                       | Limit | Results | Status |
|-------------------------------|-------|---------|--------|
| Shiga toxin-producing E. coli |       | Absent  | N/A    |

Testing & Prep Method:  
CTND-FL-SOP-B-001: Shiga Toxin-producing E. Coli Analysis

|                    |  |                         |  |
|--------------------|--|-------------------------|--|
| Prepared By:<br>12 | Prep Date:<br>Feb 15, 2023<br>17:10:00 UTC     | Reviewed By:<br>6       | Review Date:<br>Feb 17, 2023<br>21:13:00 UTC |
| Analyzed By:<br>12 | Analysis Date:<br>Feb 16, 2023<br>17:10:00 UTC | Lab Batch #:<br>B230034 |  |

| Analyte      | Limit | Results | Status |
|--------------|-------|---------|--------|
| Yeast & Mold |       | ND      | N/A    |

Testing & Prep Method:  
N/A

|                    |  |                         |  |
|--------------------|--|-------------------------|--|
| Prepared By:<br>12 | Prep Date:<br>Feb 15, 2023<br>18:13:00 UTC     | Reviewed By:<br>6       | Review Date:<br>Feb 17, 2023<br>21:13:00 UTC |
| Analyzed By:<br>12 | Analysis Date:<br>Feb 17, 2023<br>18:13:00 UTC | Lab Batch #:<br>B230036 |  |

| Analyte               | Limit             | Results | Status |
|-----------------------|-------------------|---------|--------|
| Aspergillus spp.      | Any amt in 1 gram | Absent  | N/A    |
| Aspergillus niger     |                   | Absent  | N/A    |
| Aspergillus flavus    |                   | Absent  | N/A    |
| Aspergillus terreus   |                   | Absent  | N/A    |
| Aspergillus fumigatus |                   | Absent  | N/A    |

Testing & Prep Method:  
CTND-FL-SOP-B-007: Aspergillus Prep

|                    |  |                         |  |
|--------------------|--|-------------------------|--|
| Prepared By:<br>12 | Prep Date:<br>Feb 15, 2023<br>17:30:00 UTC     | Reviewed By:<br>8       | Review Date:<br>Feb 17, 2023<br>18:24:00 UTC |
| Analyzed By:<br>8  | Analysis Date:<br>Feb 17, 2023<br>18:22:00 UTC | Lab Batch #:<br>B230035 |  |

## Residual Solvents

Testing Method: Residual Solvents

NOT TESTED

| Analyte            | Dilution | LOD | LOQ | Limit | Results | Status |
|--------------------|----------|-----|-----|-------|---------|--------|
|                    | 1:n      |     |     | ppm   |         |        |
| 1,1-Dichloroethene |          |     |     |       | NT      | N/A    |
| 1,2-Dichloroethane |          |     |     |       | NT      | N/A    |
| Acetone            |          |     |     |       | NT      | N/A    |
| Acetonitrile       |          |     |     |       | NT      | N/A    |
| Benzene            |          |     |     |       | NT      | N/A    |
| Butane             |          |     |     |       | NT      | N/A    |
| Chloroform         |          |     |     |       | NT      | N/A    |
| Ethanol            |          |     |     |       | NT      | N/A    |
| Ethyl acetate      |          |     |     |       | NT      | N/A    |
| Ethyl ether        |          |     |     |       | NT      | N/A    |
| Ethylene oxide     |          |     |     |       | NT      | N/A    |
| Heptane            |          |     |     |       | NT      | N/A    |

| Analyte            | Dilution | LOD | LOQ | Limit | Results | Status |
|--------------------|----------|-----|-----|-------|---------|--------|
|                    | 1:n      |     |     | ppm   |         |        |
| Hexane             |          |     |     |       | NT      | N/A    |
| Isopropyl alcohol  |          |     |     |       | NT      | N/A    |
| Methanol           |          |     |     |       | NT      | N/A    |
| Methylene chloride |          |     |     |       | NT      | N/A    |
| Pentane            |          |     |     |       | NT      | N/A    |
| Propane            |          |     |     |       | NT      | N/A    |
| Toluene            |          |     |     |       | NT      | N/A    |
| Total xylenes      |          |     |     |       | NT      | N/A    |
| Trichloroethylene  |          |     |     |       | NT      | N/A    |
| o-Xylene           |          |     |     |       | NT      | N/A    |
| p- and m-Xylene    |          |     |     |       | NT      | N/A    |

Prepared By: N/A  
Prep Date: N/A  
Prep Weight: N/A

Analyzed By: N/A  
Analysis Date: N/A  
Lab Batch #: N/A

Reviewed By: N/A  
Review Date: N/A

Not for Regulatory Compliance



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Feb 17, 2023

Definitions and Equations: Total THC = THCa\*0.877 + d9-THC, Total CBD = CBDa\*0.877 + CBD, LOQ = Limit of Quantification, LOD = Limit of Detection, NT = Not Tested, ND = Not Detected. This report, and all results within, relates only to the product submitted and tested, and may not be reproduced without written approval from Certified Testing and Data (CTND). CTND has been accredited by an unbiased thirdparty agency to ISO 17025 standards.