SC Labs®

# Hemp Quality Assurance Testing
# CERTIFICATE OF ANALYSIS

**DATE ISSUED 04/15/2023**

## SAMPLE NAME: Broad Spectrum Immunity Gummies
Infused, Solid Edible


### CULTIVATOR / MANUFACTURER
**Business Name:**
**License Number:**
**Address:**

### DISTRIBUTOR / TESTED FOR
**Business Name:** cbdMD
**License Number:**
**Address:**

### SAMPLE DETAIL
**Batch Number:** 91533
**Sample ID:** 230412P016

**Date Collected:** 04/12/2023
**Date Received:** 04/12/2023
**Batch Size:**
**Sample Size:** 1.0 units
**Unit Mass:** 6.2929 grams per Unit
**Serving Size:**

Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY

**Total THC: Not Detected**

**Total CBD: 30.332 mg/unit**

**Sum of Cannabinoids: 32.043 mg/unit**

**Total Cannabinoids: 32.044 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 + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + $\Delta^8$-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) + (CBDV+0.877*CBDVa) + $\Delta^8$-THC + CBL + CBN

## SAFETY ANALYSIS - SUMMARY

**$\Delta^9$-THC per Unit: ✓PASS**

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**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)

LOC verified by: Matthew Schneider
Job Title: Laboratory Analyst I
Date: 04/15/2023

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 04/15/2023


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## 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: Not Detected**
Total THC ($\Delta^9$-THC+0.877*THCa)

**TOTAL CBD: 30.332 mg/unit**
Total CBD (CBD+0.877*CBDa)

**TOTAL CANNABINOIDS: 32.044 mg/unit**
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + $\Delta^8$-THC + CBL + CBN

**TOTAL CBG: 1.303 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: 0.101 mg/unit**
Total CBDV (CBDV+0.877*CBDVa)

**CANNABINOID TEST RESULTS** - 04/15/2023

| COMPOUND | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---|---|---|---|---|
| CBD | *0.004 / 0.011* | *±0.1798* | 4.820 | 0.4820 |
| CBG | *0.002 / 0.006* | *±0.0100* | 0.207 | 0.0207 |
| CBN | *0.001 / 0.007* | *±0.0014* | 0.049 | 0.0049 |
| CBDV | *0.002 / 0.012* | *±0.0007* | 0.016 | 0.0016 |
| $\Delta^9$-THC | *0.002 / 0.014* | *N/A* | ND | ND |
| $\Delta^8$-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 |
| CBC | *0.003 / 0.010* | *N/A* | ND | ND |
| CBCa | *0.001 / 0.015* | *N/A* | ND | ND |
| SUM OF CANNABINOIDS | | | 5.092 mg/g | 0.5092% |

**Unit Mass: 6.2929 grams per Unit**

| | | | |
|---|---|---|---|
| $\Delta^9$-THC per Unit | *110 per-package limit* | ND | PASS |
| Total THC per Unit | | ND | |
| CBD per Unit | | 30.332 mg/unit | |
| Total CBD per Unit | | 30.332 mg/unit | |
| Sum of Cannabinoids per Unit | | 32.043 mg/unit | |
| Total Cannabinoids per Unit | | 32.044 mg/unit | |


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**License Number:**
**Address:**

### DISTRIBUTOR / TESTED FOR
**Business Name:** cbdMD
**License Number:**
**Address:**

### SAMPLE DETAIL
**Batch Number:** 91533
**Sample ID:** 230324L056

**Date Collected:** 03/24/2023
**Date Received:** 03/24/2023
**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

**Pesticides:** PASS
**Mycotoxins:** PASS
**Residual Solvents:** PASS
**Heavy Metals:** PASS
**Foreign Material:** PASS
**Water Activity:** PASS

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Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 04/27/2023


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## Pesticide Analysis

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:** LA-SOP-301 Pesticides & Mycotoxins Analysis by LC-MS or LA-SOP-302 Pesticides Analysis by GC-MS

**PESTICIDE TEST RESULTS** - 03/28/2023 ✓ PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Abamectin | 0.0257 / 0.0857 | 0.3 | N/A | ND | PASS |
| Acephate | 0.0272 / 0.0908 | 5 | N/A | ND | PASS |
| Acequinocyl | 0.0230 / 0.0780 | 4 | N/A | ND | PASS |
| Acetamiprid | 0.0100 / 0.0350 | 5 | N/A | ND | PASS |
| Aldicarb | 0.0241 / 0.0804 | ≥ LOD | N/A | ND | PASS |
| Azoxystrobin | 0.0160 / 0.0530 | 40 | N/A | ND | PASS |
| Bifenazate | 0.0241 / 0.0805 | 5 | N/A | ND | PASS |
| Bifenthrin | 0.1990 / 0.6640 | 0.5 | N/A | ND | PASS |
| Boscalid | 0.0240 / 0.0800 | 10 | N/A | ND | PASS |
| Captan* | 0.1200 / 0.4000 | 5 | N/A | ND | PASS |
| Carbaryl | 0.0350 / 0.1170 | 0.5 | N/A | ND | PASS |
| Carbofuran | 0.0252 / 0.0839 | ≥ LOD | N/A | ND | PASS |
| Chlorantraniliprole | 0.0260 / 0.0880 | 40 | N/A | ND | PASS |
| Chlordane* | 0.0267 / 0.0890 | ≥ LOD | N/A | ND | PASS |
| Chlorfenapyr* | 0.0130 / 0.0430 | ≥ LOD | N/A | ND | PASS |
| Chlorpyrifos | 0.0107 / 0.0355 | ≥ LOD | N/A | ND | PASS |
| Clofentezine | 0.0215 / 0.0717 | 0.5 | N/A | ND | PASS |
| Coumaphos | 0.0260 / 0.0860 | ≥ LOD | N/A | ND | PASS |
| Cyfluthrin | 0.1720 / 0.5740 | 1 | N/A | ND | PASS |
| Cypermethrin | 0.0410 / 0.1380 | 1 | N/A | ND | PASS |
| Daminozide | 0.0254 / 0.0846 | ≥ LOD | N/A | ND | PASS |
| Diazinon | 0.0210 / 0.0690 | 0.2 | N/A | ND | PASS |
| Dichlorvos (DDVP) | 0.0070 / 0.0240 | ≥ LOD | N/A | ND | PASS |
| Dimethoate | 0.0183 / 0.0611 | ≥ LOD | N/A | ND | PASS |
| Dimethomorph | 0.0630 / 0.2090 | 20 | N/A | ND | PASS |
| Ethoprophos | 0.0280 / 0.0930 | ≥ LOD | N/A | ND | PASS |
| Etofenprox | 0.0261 / 0.0870 | ≥ LOD | N/A | ND | PASS |
| Etoxazole | 0.0290 / 0.0970 | 1.5 | N/A | ND | PASS |
| Fenhexamid | 0.0140 / 0.0460 | 10 | N/A | ND | PASS |
| Fenoxycarb | 0.0280 / 0.0920 | ≥ LOD | N/A | ND | PASS |
| Fenpyroximate | 0.0080 / 0.0250 | 2 | N/A | ND | PASS |
| Fipronil | 0.0157 / 0.0520 | ≥ LOD | N/A | ND | PASS |
| Flonicamid | 0.0120 / 0.0390 | 2 | N/A | ND | PASS |
| Fludioxonil | 0.0270 / 0.0910 | 30 | N/A | ND | PASS |
| Hexythiazox | 0.0151 / 0.0500 | 2 | N/A | ND | PASS |
| Imazalil | 0.0284 / 0.0950 | ≥ LOD | N/A | ND | PASS |
| Imidacloprid | 0.0397 / 0.1320 | 3 | N/A | ND | PASS |
| Kresoxim-methyl | 0.0270 / 0.0910 | 1 | N/A | ND | PASS |
| Malathion | 0.1270 / 0.4240 | 5 | N/A | ND | PASS |
| Metalaxyl | 0.0570 / 0.1910 | 15 | N/A | ND | PASS |
| Methiocarb | 0.0080 / 0.0280 | ≥ LOD | N/A | ND | PASS |

Continued on next page


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## Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 03/28/2023 *continued* PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Methomyl | 0.0120 / 0.0420 | 0.1 | N/A | ND | PASS |
| Mevinphos | 0.0176 / 0.0590 | ≥ LOD | N/A | ND | PASS |
| Myclobutanil | 0.0183 / 0.0610 | 9 | N/A | ND | PASS |
| Naled | 0.0160 / 0.0540 | 0.5 | N/A | ND | PASS |
| Oxamyl | 0.0380 / 0.1250 | 0.2 | N/A | ND | PASS |
| Paclobutrazol | 0.0268 / 0.0890 | ≥ LOD | N/A | ND | PASS |
| Parathion-methyl* | 0.0229 / 0.0760 | ≥ LOD | N/A | ND | PASS |
| Pentachloronitrobenzene* | 0.0261 / 0.0870 | 0.2 | N/A | ND | PASS |
| Permethrin | 0.0280 / 0.0940 | 20 | N/A | ND | PASS |
| Phosmet | 0.0280 / 0.0950 | 0.2 | N/A | ND | PASS |
| Piperonyl Butoxide | 0.0380 / 0.1260 | 8 | N/A | ND | PASS |
| Prallethrin | 0.0250 / 0.0850 | 0.4 | N/A | ND | PASS |
| Propiconazole | 0.0268 / 0.0890 | 20 | N/A | ND | PASS |
| Propoxur | 0.0215 / 0.0720 | ≥ LOD | N/A | ND | PASS |
| Pyrethrins | 0.0300 / 0.1020 | 1 | N/A | ND | PASS |
| Pyridaben | 0.0228 / 0.0760 | 3 | N/A | ND | PASS |
| Spinetoram | 0.0180 / 0.0620 | 3 | N/A | ND | PASS |
| Spinosad | 0.0280 / 0.0940 | 3 | N/A | ND | PASS |
| Spiromesifen | 0.0297 / 0.0990 | 12 | N/A | ND | PASS |
| Spirotetramat | 0.0110 / 0.0350 | 13 | N/A | ND | PASS |
| Spiroxamine | 0.0073 / 0.0240 | ≥ LOD | N/A | ND | PASS |
| Tebuconazole | 0.0197 / 0.0660 | 2 | N/A | ND | PASS |
| Thiacloprid | 0.0211 / 0.0700 | ≥ LOD | N/A | ND | PASS |
| Thiamethoxam | 0.0340 / 0.1130 | 4.5 | N/A | ND | PASS |
| Trifloxystrobin | 0.0290 / 0.0970 | 30 | N/A | ND | PASS |

## Mycotoxin Analysis

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

**Method:** LA-SOP-301 Pesticides & Mycotoxins Analysis by LC-MS

MYCOTOXIN TEST RESULTS - 03/28/2023 PASS

| COMPOUND | LOD/LOQ (µg/kg) | ACTION LIMIT (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) | RESULT |
|---|---|---|---|---|---|
| Aflatoxin B1 | 0.7575 / 2.5249 | | N/A | ND | |
| Aflatoxin B2 | 0.8260 / 2.7530 | | N/A | ND | |
| Aflatoxin G1 | 0.7380 / 2.4590 | | N/A | ND | |
| Aflatoxin G2 | 1.6030 / 5.3440 | | N/A | ND | |
| Total Aflatoxin | | 20 | | ND | PASS |
| Ochratoxin A | 5.9420 / 19.8060 | 20 | N/A | ND | PASS |


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## Residual Solvents Analysis

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

**Method:** LA-SOP-202 Solvent Analysis by GC-MS

**RESIDUAL SOLVENTS TEST RESULTS** - 03/28/2023 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Propane | 42.44 / 141.57 | 5000 | N/A | ND | PASS |
| n-Butane | 35.32 / 117.80 | 5000 | N/A | ND | PASS |
| n-Pentane | 28.08 / 93.67 | 5000 | N/A | ND | PASS |
| n-Hexane | 33.99 / 113.37 | 290 | N/A | ND | PASS |
| n-Heptane | 42.11 / 140.48 | 5000 | N/A | ND | PASS |
| Benzene | 0.09 / 1.00 | 1 | N/A | ND | PASS |
| Toluene | 23.99 / 80.03 | 890 | N/A | ND | PASS |
| Total Xylenes | 65.49 / 218.45 | 2170 | N/A | ND | PASS |
| Methanol | 149.00 / 497.01 | 3000 | N/A | ND | PASS |
| Ethanol | 14.96 / 50.00 | 5000 | N/A | <LOQ | PASS |
| 2-Propanol (Isopropyl Alcohol) | 19.79 / 66.02 | 5000 | N/A | ND | PASS |
| Acetone | 9.19 / 50.00 | 5000 | N/A | <LOQ | PASS |
| Ethyl Ether | 16.00 / 53.36 | 5000 | N/A | ND | PASS |
| Ethylene Oxide | 0.30 / 1.00 | 1 | N/A | ND | PASS |
| Ethyl Acetate | 12.80 / 50.00 | 5000 | N/A | <LOQ | PASS |
| Chloroform | 0.21 / 1.00 | 1 | N/A | ND | PASS |
| Dichloromethane (Methylene Chloride) | 0.11 / 1.00 | 1 | N/A | ND | PASS |
| Trichloroethylene | 0.06 / 1.00 | 1 | N/A | ND | PASS |
| 1,2-Dichloroethane | 0.08 / 1.00 | 1 | N/A | ND | PASS |
| Acetonitrile | 17.49 / 58.35 | 410 | N/A | ND | PASS |

## Heavy Metals Analysis

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

**Method:** LA-SOP-502 Heavy Metals Analysis by ICP-MS

**HEAVY METALS TEST RESULTS** - 03/29/2023 PASS

| COMPOUND | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---|---|---|---|---|---|
| Arsenic | 0.006 / 0.05 | 1.5 | N/A | <LOQ | PASS |
| Cadmium | 0.003 / 0.05 | 0.5 | N/A | ND | PASS |
| Lead | 0.010 / 0.05 | 0.5 | N/A | <LOQ | PASS |
| Mercury | 0.003 / 0.05 | 3 | N/A | <LOQ | PASS |

## Foreign Material Analysis

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

**Method:** LA-SOP-600 Foreign Material

**FOREIGN MATERIAL TEST RESULTS** - 03/28/2023 PASS

| COMPOUND | ACTION LIMIT | RESULT |
|---|---|---|
| Total Sample Area Covered by Sand, Soil, Cinders, or Dirt | >25% | PASS |
| Total Sample Area Covered by Mold | >25% | PASS |
| Total Sample Area Covered by an Imbedded Foreign Material | >25% | PASS |
| Insect Fragment Count | > 1 per 3 grams | PASS |
| Hair Count | > 1 per 3 grams | PASS |
| Mammalian Excreta Count | > 1 per 3 grams | PASS |


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## Water Activity Analysis

**Method:** LA-SOP-102 Water Activity Analysis

**WATER ACTIVITY TEST RESULTS** - 03/28/2023 PASS

| COMPOUND | LOD/LOQ (Aw) | ACTION LIMIT (Aw) | MEASUREMENT UNCERTAINTY (Aw) | RESULT (Aw) | RESULT |
|---|---|---|---|---|---|
| **Water Activity** | *0.030 / 0.250* | *0.85* | *±0.0347* | **0.743** | **PASS** |

**NOTES**
COA amended to reflect requested assays.


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CTLA
Contract TESTING Laboratories
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# Certificate of Analysis

## Sample Information

CTLA ID: 70623
Date Received: 3/23/2023
Sample Name: Broad Spectrum Immunity Gummies
Lot Number: 91533
Customer: cbdMD

| Analysis | Method | MDL | Specification | Result | Units |
|---|---|---|---|---|---|
| Vitamin C (Ascorbic Acid) | HPLC | 0.005 | >90 | 119.896 | mg/serv |
| Vitamin D3 (Cholecalciferol) | HPLC | 0.00727 | >25 | 40.933 | mcg/serv |
| Mineral Analysis | ICP-MS | 0.00032 | >7 | Zinc 7.288 | mg/serv |

Serv= Serving
Serving= 2 gummies (6.4g)

3/28/2023

Specifications provided by the Customer. Results with an asterisiA T<fenote Specifications should be reCJ•'tlri9rW¥1 ustomer.
This Certificate of Analysis represents data for the sample submitted and does not constitute a guarantee of quality for the entire product from which it was taken. These results are provided for the benefit of the Customer. MDL= Method Detection Limit. This document is not to be altered or reproduced except by the original authorizing body (CTLA)

SC Labs®

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# CERTIFICATE OF ANALYSIS

**DATE ISSUED 04/28/2023**

## SAMPLE NAME: Broad Spectrum Immunity Gummies
Infused, Solid Edible


### CULTIVATOR / MANUFACTURER
**Business Name:**
**License Number:**
**Address:**

### DISTRIBUTOR / TESTED FOR
**Business Name:** cbdMD
**License Number:**
**Address:**

### SAMPLE DETAIL
**Batch Number:** 91533
**Sample ID:** 230424N002

**Date Collected:** 04/24/2023
**Date Received:** 04/24/2023
**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):** ✓ **PASS**

**Microbiology (Plating):** **ND**

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**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Josh Antunovich
Job Title: Laboratory Manager
Date: 04/28/2023

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 04/28/2023



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## 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)** - 04/27/2023 PASS

| COMPOUND | ACTION LIMIT | RESULT | RESULT |
|---|---|---|---|
| **Shiga toxin-producing *Escherichia coli*** | *Not Detected in 1g* | **ND** | **PASS** |
| ***Salmonella* spp.** | *Not Detected in 1g* | **ND** | **PASS** |
| ***Listeria monocytogenes*** | | **ND** | |

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

**Method:** QSP 6794 - Plating with 3M™ Petrifilm™

**MICROBIOLOGY TEST RESULTS (PLATING)** - 04/27/2023 **ND**

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


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