

**SAMPLE NAME: R&R 60mg Full Spectrum CBD Infused Gummy**  
 Infused, Hemp

**CULTIVATOR / MANUFACTURER**

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

**DISTRIBUTOR / TESTED FOR**

**Business Name: R&R CBD**  
**License Number:**  
**Address:**

**SAMPLE DETAIL**

**Batch Number: Lot 2000**  
**Sample ID: 230515S015**

**Date Collected: 05/15/2023**  
**Date Received: 05/15/2023**  
**Batch Size:**  
**Sample Size: 1.0 units**  
**Unit Mass: 10.4727 grams per Unit**  
**Serving Size:**



Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**

**Total THC: 0.869 mg/unit**  
**Total CBD: 63.894 mg/unit**  
**Sum of Cannabinoids: 65.968 mg/unit**  
**Total Cannabinoids: 65.926 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 + exo-THC +  $\Delta^8$ -THCV +  $\Delta^8$ -iso-THC + 9S-HHC + 9R-HHC +  $\Delta^{10}$ -THC +  $\Delta^9$ -THC Acetate  
 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 + exo-THC +  $\Delta^8$ -THCV +  $\Delta^8$ -iso-THC + 9S-HHC + 9R-HHC +  $\Delta^{10}$ -THC +  $\Delta^9$ -THC Acetate

**SAFETY ANALYSIS - SUMMARY**


|                         |                               |                                   |
|-------------------------|-------------------------------|-----------------------------------|
| <b>Pesticides: ND</b>   | <b>Mycotoxins: ND</b>         | <b>Residual Solvents: ND</b>      |
| <b>Heavy Metals: ND</b> | <b>Microbiology (PCR): ND</b> | <b>Microbiology (Plating): ND</b> |

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 cfu/plate (TNTC), colony-forming unit (cfu)

  
 LQC verified by: Josh Antunovich  
 Job Title: Laboratory Director  
 Date: 06/05/2023

  
 Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 06/05/2023



## Cannabinoid Analysis

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

†Analytes not part of our ISO/IEC 17025 scope of accreditation.

**Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD or QSP 34181 - Semisynthetic Cannabinoids Analysis by HPLC

### TOTAL THC: 0.869 mg/unit

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

### TOTAL CBD: 63.894 mg/unit

Total CBD (CBD+0.877\*CBDA)

### TOTAL CANNABINOIDS: 65.926 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8$ -THC + CBL + CBN + exo-THC +  $\Delta^8$ -THCV +  $\Delta^8$ -iso-THC + 9S-HHC + 9R-HHC +  $\Delta^{10}$ -THC +  $\Delta^9$ -THC Acetate

### TOTAL CBG: 0.230 mg/unit

Total CBG (CBG+0.877\*CBGa)

### TOTAL THCV: ND

Total THCV (THCV+0.877\*THCVa)

### TOTAL CBC: 0.691 mg/unit

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: 0.241 mg/unit

Total CBDV (CBDV+0.877\* CBDVa)

## CANNABINOID TEST RESULTS - 05/16/2023

| COMPOUND                   | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g)     | RESULT (%)     |
|----------------------------|----------------|--------------------------------|-------------------|----------------|
| CBD                        | 0.004 / 0.011  | ±0.2266                        | 6.076             | 0.6076         |
| $\Delta^9$ -THC            | 0.002 / 0.014  | ±0.0046                        | 0.083             | 0.0083         |
| CBC                        | 0.003 / 0.010  | ±0.0021                        | 0.066             | 0.0066         |
| CBDA                       | 0.001 / 0.026  | ±0.0008                        | 0.029             | 0.0029         |
| CBDV                       | 0.002 / 0.012  | ±0.0009                        | 0.023             | 0.0023         |
| CBG                        | 0.002 / 0.006  | ±0.0011                        | 0.022             | 0.0022         |
| $\Delta^8$ -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             |
| 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             |
| CBN                        | 0.001 / 0.007  | N/A                            | ND                | ND             |
| CBCa                       | 0.001 / 0.015  | N/A                            | ND                | ND             |
| 9R-HHC†                    | 0.027 / 0.089  | N/A                            | ND                | ND             |
| 9S-HHC†                    | 0.027 / 0.090  | N/A                            | ND                | ND             |
| $\Delta^{10}$ -THC†        | 0.024 / 0.078  | N/A                            | ND                | ND             |
| $\Delta^8$ -iso-THC†       | 0.025 / 0.084  | N/A                            | ND                | ND             |
| $\Delta^8$ -THCV†          | 0.012 / 0.039  | N/A                            | ND                | ND             |
| $\Delta^9$ -THC Acetate†   | 0.023 / 0.077  | N/A                            | ND                | ND             |
| exo-THC†                   | 0.028 / 0.093  | N/A                            | ND                | ND             |
| <b>SUM OF CANNABINOIDS</b> |                |                                | <b>6.299 mg/g</b> | <b>0.6299%</b> |

### Unit Mass: 10.4727 grams per Unit

|                              |                |
|------------------------------|----------------|
| $\Delta^9$ -THC per Unit     | 0.869 mg/unit  |
| Total THC per Unit           | 0.869 mg/unit  |
| CBD per Unit                 | 63.632 mg/unit |
| Total CBD per Unit           | 63.894 mg/unit |
| Sum of Cannabinoids per Unit | 65.968 mg/unit |
| Total Cannabinoids per Unit  | 65.926 mg/unit |



## 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:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

### PESTICIDE TEST RESULTS - 06/02/2023 ND

| COMPOUND            | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---------------------|----------------|--------------------------------|---------------|
| Abamectin           | 0.032 / 0.097  | N/A                            | ND            |
| Acephate            | 0.006 / 0.018  | N/A                            | ND            |
| Acequinocyl         | 0.009 / 0.027  | N/A                            | ND            |
| Acetamiprid         | 0.016 / 0.049  | N/A                            | ND            |
| Aldicarb            | 0.030 / 0.090  | N/A                            | ND            |
| Allethrin           | 0.030 / 0.092  | N/A                            | ND            |
| Atrazine            | 0.006 / 0.019  | N/A                            | ND            |
| Azadirachtin        | 0.082 / 0.248  | N/A                            | ND            |
| Azoxystrobin        | 0.003 / 0.009  | N/A                            | ND            |
| Benzovindiflupyr    | 0.003 / 0.009  | N/A                            | ND            |
| Bifenazate          | 0.003 / 0.009  | N/A                            | ND            |
| Bifenthrin          | 0.021 / 0.064  | N/A                            | ND            |
| Boscalid            | 0.003 / 0.009  | N/A                            | ND            |
| Buprofezin          | 0.006 / 0.019  | N/A                            | ND            |
| Carbaryl            | 0.007 / 0.020  | N/A                            | ND            |
| Carbofuran          | 0.003 / 0.008  | N/A                            | ND            |
| Chlorantraniliprole | 0.006 / 0.018  | N/A                            | ND            |
| Chlorfenapyr*       | 0.005 / 0.015  | N/A                            | ND            |
| Chlorpyrifos        | 0.013 / 0.039  | N/A                            | ND            |
| Clofentezine        | 0.003 / 0.009  | N/A                            | ND            |
| Clothianidin        | 0.008 / 0.025  | N/A                            | ND            |
| Coumaphos           | 0.003 / 0.010  | N/A                            | ND            |
| Cyantraniliprole    | 0.003 / 0.010  | N/A                            | ND            |
| Cyfluthrin          | 0.052 / 0.159  | N/A                            | ND            |
| Cypermethrin        | 0.051 / 0.153  | N/A                            | ND            |
| Cyprodinil          | 0.003 / 0.008  | N/A                            | ND            |
| Daminozide          | 0.026 / 0.077  | N/A                            | ND            |
| Deltamethrin        | 0.059 / 0.180  | N/A                            | ND            |
| Diazinon            | 0.006 / 0.017  | N/A                            | ND            |
| Dichlorvos (DDVP)   | 0.012 / 0.038  | N/A                            | ND            |
| Dimethoate          | 0.003 / 0.009  | N/A                            | ND            |
| Dimethomorph        | 0.016 / 0.050  | N/A                            | ND            |
| Dinotefuran         | 0.010 / 0.030  | N/A                            | ND            |
| Diuron              | 0.013 / 0.040  | N/A                            | ND            |
| Dodemorph           | 0.012 / 0.035  | N/A                            | ND            |
| Endosulfan sulfate  | 0.016 / 0.048  | N/A                            | ND            |
| Endosulfan-α*       | 0.004 / 0.014  | N/A                            | ND            |
| Endosulfan-β*       | 0.006 / 0.019  | N/A                            | ND            |
| Ethoprophos         | 0.003 / 0.009  | N/A                            | ND            |
| Etofenprox          | 0.014 / 0.042  | N/A                            | ND            |
| Etoxazole           | 0.007 / 0.020  | N/A                            | ND            |

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**Pesticide Analysis** *Continued*

**PESTICIDE TEST RESULTS - 06/02/2023** *continued ND*

| COMPOUND                 | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|--------------------------|----------------|--------------------------------|---------------|
| Etridiazole*             | 0.002 / 0.005  | N/A                            | ND            |
| Fenhexamid               | 0.003 / 0.008  | N/A                            | ND            |
| Fenoxycarb               | 0.003 / 0.010  | N/A                            | ND            |
| Fenpyroximate            | 0.007 / 0.020  | N/A                            | ND            |
| Fensulfothion            | 0.003 / 0.010  | N/A                            | ND            |
| Fenthion                 | 0.003 / 0.010  | N/A                            | ND            |
| Fenvalerate              | 0.033 / 0.099  | N/A                            | ND            |
| Fipronil                 | 0.003 / 0.010  | N/A                            | ND            |
| Flonicamid               | 0.007 / 0.022  | N/A                            | ND            |
| Fludioxonil              | 0.003 / 0.010  | N/A                            | ND            |
| Fluopyram                | 0.003 / 0.009  | N/A                            | ND            |
| Hexythiazox              | 0.003 / 0.010  | N/A                            | ND            |
| Imazalil                 | 0.003 / 0.009  | N/A                            | ND            |
| Imidacloprid             | 0.003 / 0.010  | N/A                            | ND            |
| Iprodione                | 0.077 / 0.233  | N/A                            | ND            |
| Kinoprene                | 0.077 / 0.233  | N/A                            | ND            |
| Kresoxim-methyl          | 0.006 / 0.019  | N/A                            | ND            |
| λ-Cyhalothrin            | 0.068 / 0.206  | N/A                            | ND            |
| Malathion                | 0.003 / 0.009  | N/A                            | ND            |
| Metaxyl                  | 0.003 / 0.010  | N/A                            | ND            |
| Methiocarb               | 0.003 / 0.008  | N/A                            | ND            |
| Methomyl                 | 0.008 / 0.025  | N/A                            | ND            |
| Methoprene               | 0.172 / 0.521  | N/A                            | ND            |
| Mevinphos                | 0.008 / 0.024  | N/A                            | ND            |
| MGK-264                  | 0.015 / 0.047  | N/A                            | ND            |
| Myclobutanil             | 0.003 / 0.009  | N/A                            | ND            |
| Naled                    | 0.021 / 0.064  | N/A                            | ND            |
| Novaluron                | 0.002 / 0.005  | N/A                            | ND            |
| Oxamyl                   | 0.017 / 0.051  | N/A                            | ND            |
| Paclobutrazol            | 0.003 / 0.010  | N/A                            | ND            |
| Parathion-methyl         | 0.016 / 0.050  | N/A                            | ND            |
| Pentachloronitrobenzene* | 0.004 / 0.012  | N/A                            | ND            |
| Permethrin               | 0.056 / 0.168  | N/A                            | ND            |
| Phenothrin               | 0.016 / 0.047  | N/A                            | ND            |
| Phosmet                  | 0.007 / 0.020  | N/A                            | ND            |
| Piperonyl Butoxide       | 0.010 / 0.029  | N/A                            | ND            |
| Pirimicarb               | 0.003 / 0.009  | N/A                            | ND            |
| Prallethrin              | 0.015 / 0.046  | N/A                            | ND            |
| Propiconazole            | 0.027 / 0.080  | N/A                            | ND            |
| Propoxur                 | 0.003 / 0.008  | N/A                            | ND            |
| Pyraclostrobin           | 0.003 / 0.010  | N/A                            | ND            |

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## Pesticide Analysis *Continued*

### PESTICIDE TEST RESULTS - 06/02/2023 *continued ND*

| COMPOUND           | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|--------------------|----------------|--------------------------------|---------------|
| Pyrethrins         | 0.016 / 0.049  | N/A                            | ND            |
| Pyridaben          | 0.005 / 0.017  | N/A                            | ND            |
| Pyriproxyfen       | 0.003 / 0.009  | N/A                            | ND            |
| Resmethrin         | 0.013 / 0.039  | N/A                            | ND            |
| Spinetoram         | 0.003 / 0.010  | N/A                            | ND            |
| Spinosad           | 0.003 / 0.010  | N/A                            | ND            |
| Spirodiclofen      | 0.031 / 0.093  | N/A                            | ND            |
| Spiromesifen       | 0.016 / 0.050  | N/A                            | ND            |
| Spirotetramat      | 0.003 / 0.010  | N/A                            | ND            |
| Spiroxamine        | 0.020 / 0.062  | N/A                            | ND            |
| Tebuconazole       | 0.003 / 0.010  | N/A                            | ND            |
| Tebufozide         | 0.003 / 0.008  | N/A                            | ND            |
| Teflubenzuron      | 0.007 / 0.022  | N/A                            | ND            |
| Tetrachlorvinphos  | 0.003 / 0.008  | N/A                            | ND            |
| Tetramethrin       | 0.021 / 0.063  | N/A                            | ND            |
| Thiabendazole      | 0.006 / 0.020  | N/A                            | ND            |
| Thiacloprid        | 0.003 / 0.009  | N/A                            | ND            |
| Thiamethoxam       | 0.003 / 0.010  | N/A                            | ND            |
| Thiophanate-methyl | 0.013 / 0.040  | N/A                            | ND            |
| Trifloxystrobin    | 0.003 / 0.009  | N/A                            | ND            |



## Mycotoxin Analysis

### MYCOTOXIN TEST RESULTS - 05/31/2023 ND

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

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

| COMPOUND        | LOD/LOQ (µg/kg) | MEASUREMENT UNCERTAINTY (µg/kg) | RESULT (µg/kg) |
|-----------------|-----------------|---------------------------------|----------------|
| Aflatoxin B1    | 1.6 / 5.0       | N/A                             | ND             |
| Aflatoxin B2    | 1.4 / 4.1       | N/A                             | ND             |
| Aflatoxin G1    | 1.6 / 4.9       | N/A                             | ND             |
| Aflatoxin G2    | 1.6 / 5.0       | N/A                             | ND             |
| Total Aflatoxin |                 |                                 | ND             |
| Ochratoxin A    | 1.6 / 5.0       | N/A                             | ND             |



## Residual Solvents Analysis

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

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

**Total Butanes** = n-Butane + 2-Methylpropane (Isobutane)

**Total Heptanes** = 2,2-Dimethylpentane (Neoheptane) + 2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) + 3-Methylhexane + 3-Ethylpentane + n-Heptane

**Total Xylenes** = 1,2-Dimethylbenzene (o-Xylene) + 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

## RESIDUAL SOLVENTS TEST RESULTS - 06/05/2023 ND

| COMPOUND                                  | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|---|----------------|--------------------------------|---------------|
| Propane                                   | 0.234 / 0.781  | N/A                            | ND            |
| 2-Methylpropane (Isobutane)               | 0.052 / 0.173  | N/A                            | ND            |
| n-Butane                                  | 0.019 / 0.063  | N/A                            | ND            |
| Total Butanes                             |                |                                | ND            |
| n-Pentane                                 | 0.310 / 1.033  | N/A                            | ND            |
| n-Hexane                                  | 0.110 / 0.366  | N/A                            | ND            |
| 2,2-Dimethylpentane (Neoheptane)          | 0.493 / 1.642  | N/A                            | ND            |
| 2,3-Dimethylpentane                       | 1.009 / 3.365  | N/A                            | ND            |
| 2,4-Dimethylpentane                       | 0.737 / 2.458  | N/A                            | ND            |
| 3,3-Dimethylpentane                       | 0.198 / 0.660  | N/A                            | ND            |
| 2,2,3-Trimethylbutane (Triptane)          | 0.521 / 1.738  | N/A                            | ND            |
| 2-Methylhexane (Isoheptane)               | 0.610 / 2.034  | N/A                            | ND            |
| 3-Methylhexane                            | 0.235 / 0.785  | N/A                            | ND            |
| 3-Ethylpentane                            | 0.304 / 1.012  | N/A                            | ND            |
| n-Heptane                                 | 13.12 / 43.72  | N/A                            | ND            |
| Total Heptanes                            |                |                                | ND            |
| Benzene                                   | 0.089 / 0.295  | N/A                            | ND            |
| Toluene                                   | 0.115 / 0.382  | N/A                            | ND            |
| 1,3-Dimethylbenzene / 1,4-Dimethylbenzene | 0.451 / 1.502  | N/A                            | ND            |
| 1,2-Dimethylbenzene (o-Xylene)            | 0.387 / 1.289  | N/A                            | ND            |
| Total Xylenes                             |                |                                | ND            |
| Methanol                                  | 53.92 / 163.4  | N/A                            | ND            |
| Ethanol                                   | 8.984 / 27.23  | N/A                            | ND            |
| 2-Propanol (Isopropyl Alcohol)            | 8.421 / 25.52  | N/A                            | ND            |
| Acetone                                   | 10.59 / 32.08  | N/A                            | ND            |
| Ethyl Acetate                             | 1.123 / 3.745  | N/A                            | ND            |

## 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 - 05/31/2023 ND

| COMPOUND | LOD/LOQ (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) |
|----------|----------------|--------------------------------|---------------|
| Arsenic  | 0.02 / 0.1     | N/A                            | ND            |
| Cadmium  | 0.02 / 0.05    | N/A                            | ND            |
| Lead     | 0.04 / 0.1     | N/A                            | ND            |
| Mercury  | 0.002 / 0.01   | N/A                            | ND            |



## 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

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

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

### MICROBIOLOGY TEST RESULTS (PCR) - 06/03/2023 ND

| COMPOUND                                      | RESULT |
|---|--------|
| Shiga toxin-producing <i>Escherichia coli</i> | ND     |
| <i>Salmonella</i> spp.                        | ND     |

### MICROBIOLOGY TEST RESULTS (PLATING) - 06/03/2023 ND

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

### NOTES

COA amended, update to order detail information. COA amended to reflect requested assays.