

**SAMPLE DETAILS**

**SAMPLE NAME:** R&R Sleep Gummy 45mg CBD / 5mg CBN Full-Spectrum Infused Gummy  
 Infused, Solid Edible

**CULTIVATOR / MANUFACTURER**

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

**DISTRIBUTOR / TESTED FOR**

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

**SAMPLE DETAIL**

**Batch Number:** Lot 2203S  
**Sample ID:** 250331Q048

**Date Collected:** 03/31/2025  
**Date Received:** 03/31/2025  
**Batch Size:**  
**Sample Size:** 10.0 units  
**Unit Mass:** 9 grams per Unit  
**Serving Size:** 9 grams per Serving



Scan QR code to verify  
 authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**

**Total THC:** 0.324 mg/unit  
**Total CBD:** 48.618 mg/unit  
**Sum of Cannabinoids:** 55.521 mg/unit  
**Total Cannabinoids:** 55.521 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 =  $\Delta^9\text{-THC} + (\text{THCa} \cdot 0.877)$   
 Total CBD =  $\text{CBD} + (\text{CBDa} \cdot 0.877)$   
 Sum of Cannabinoids =  $\Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$   
 Total Cannabinoids =  $(\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) + (\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) + (\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$

**TERPENOID ANALYSIS - SUMMARY**

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids:** ND

**SAFETY ANALYSIS - SUMMARY**

|                                                                                             |                                                                                                |                                                                      |                                                              |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|
| <b><math>\Delta^9\text{-THC}</math> per Unit:</b> <span style="color: green;">✔ PASS</span> | <b><math>\Delta^9\text{-THC}</math> per Serving:</b> <span style="color: green;">✔ PASS</span> | <b>Pesticides:</b> <span style="color: green;">✔ PASS</span>         | <b>Mycotoxins:</b> <span style="color: green;">✔ PASS</span> |
| <b>Residual Solvents:</b> <span style="color: green;">✔ PASS</span>                         | <b>Heavy Metals:</b> <span style="color: green;">✔ PASS</span>                                 | <b>Microbiology (PCR):</b> <span style="color: green;">✔ PASS</span> | <b>Microbiology (Plating):</b> 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),  $\mu\text{g/g}$  = ppm,  $\mu\text{g/kg}$  = ppb, too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

*Daniel Hardwick*  
 LQC verified by: Daniel Hardwick  
 Job Title: Technical Lead  
 Date: 04/10/2025

*Josh Wurzer*  
 Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 04/10/2025

Amendment to Certificate of Analysis 250331Q048-003

 **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: 0.324 mg/unit**

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

**TOTAL CBD: 48.618 mg/unit**

Total CBD (CBD+0.877\*CBDA)

**TOTAL CANNABINOIDS: 55.521 mg/unit**

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

**TOTAL CBG: 0.126 mg/unit**

Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV: ND**

Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC: 0.567 mg/unit**

Total CBC (CBC+0.877\*CBCa)

**TOTAL CBDV: 0.315 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

CANNABINOID TEST RESULTS - 04/01/2025

| COMPOUND            | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---------------------|----------------|--------------------------------|---------------|------------|
| CBD                 | 0.004 / 0.011  | ±0.2015                        | 5.402         | 0.5402     |
| CBN                 | 0.001 / 0.007  | ±0.0178                        | 0.619         | 0.0619     |
| CBC                 | 0.003 / 0.010  | ±0.0020                        | 0.063         | 0.0063     |
| $\Delta^9$ -THC     | 0.002 / 0.014  | ±0.0020                        | 0.036         | 0.0036     |
| CBDV                | 0.002 / 0.012  | ±0.0014                        | 0.035         | 0.0035     |
| CBG                 | 0.002 / 0.006  | ±0.0007                        | 0.014         | 0.0014     |
| CBDA                | 0.001 / 0.026  | N/A                            | <LOQ          | <LOQ       |
| $\Delta^8$ -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         |
| CBCa                | 0.001 / 0.015  | N/A                            | ND            | ND         |
| SUM OF CANNABINOIDS |                |                                | 6.169 mg/g    | 0.6169%    |

Unit Mass: 9 grams per Unit / Serving Size: 9 grams per Serving

|                                 |                       |                   |      |
|---------------------------------|-----------------------|-------------------|------|
| $\Delta^9$ -THC per Unit        | 110 per-package limit | 0.324 mg/unit     | PASS |
| $\Delta^9$ -THC per Serving     |                       | 0.324 mg/serving  | PASS |
| Total THC per Unit              |                       | 0.324 mg/unit     |      |
| Total THC per Serving           |                       | 0.324 mg/serving  |      |
| CBD per Unit                    |                       | 48.618 mg/unit    |      |
| CBD per Serving                 |                       | 48.618 mg/serving |      |
| Total CBD per Unit              |                       | 48.618 mg/unit    |      |
| Total CBD per Serving           |                       | 48.618 mg/serving |      |
| Sum of Cannabinoids per Unit    |                       | 55.521 mg/unit    |      |
| Sum of Cannabinoids per Serving |                       | 55.521 mg/serving |      |
| Total Cannabinoids per Unit     |                       | 55.521 mg/unit    |      |
| Total Cannabinoids per Serving  |                       | 55.521 mg/serving |      |



## Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

**Method:** QSP 1192 - Analysis of Terpenoids by GC-FID

### TERPENOID TEST RESULTS - 04/04/2025

| COMPOUND                  | LOD/LOQ (mg/g) | MEASUREMENT UNCERTAINTY (mg/g) | RESULT (mg/g) | RESULT (%) |
|---------------------------|----------------|--------------------------------|---------------|------------|
| $\alpha$ -Bisabolol       | 0.008 / 0.026  | N/A                            | ND            | ND         |
| $\alpha$ -Cedrene         | 0.005 / 0.016  | N/A                            | ND            | ND         |
| $\alpha$ -Humulene        | 0.009 / 0.180  | N/A                            | ND            | ND         |
| $\alpha$ -Phellandrene    | 0.006 / 0.036  | N/A                            | ND            | ND         |
| $\alpha$ -Pinene          | 0.005 / 0.036  | N/A                            | ND            | ND         |
| $\alpha$ -Terpinene       | 0.005 / 0.017  | N/A                            | ND            | ND         |
| $\beta$ -Caryophyllene    | 0.004 / 0.012  | N/A                            | ND            | ND         |
| $\beta$ -Ocimene          | 0.006 / 0.025  | N/A                            | ND            | ND         |
| $\beta$ -Pinene           | 0.004 / 0.014  | N/A                            | ND            | ND         |
| Borneol                   | 0.005 / 0.016  | N/A                            | ND            | ND         |
| Camphene                  | 0.005 / 0.015  | N/A                            | ND            | ND         |
| Camphor                   | 0.006 / 0.036  | N/A                            | ND            | ND         |
| Caryophyllene Oxide       | 0.010 / 0.033  | N/A                            | ND            | ND         |
| Cedrol                    | 0.008 / 0.027  | N/A                            | ND            | ND         |
| Citronellol               | 0.003 / 0.036  | N/A                            | ND            | ND         |
| $\Delta^3$ -Carene        | 0.005 / 0.018  | N/A                            | ND            | ND         |
| Eucalyptol                | 0.006 / 0.018  | N/A                            | ND            | ND         |
| Fenchol                   | 0.010 / 0.036  | N/A                            | ND            | ND         |
| Fenchone                  | 0.009 / 0.036  | N/A                            | ND            | ND         |
| $\gamma$ -Terpinene       | 0.006 / 0.018  | N/A                            | ND            | ND         |
| Geraniol                  | 0.002 / 0.036  | N/A                            | ND            | ND         |
| Geranyl Acetate           | 0.004 / 0.036  | N/A                            | ND            | ND         |
| Guaiol                    | 0.009 / 0.030  | N/A                            | ND            | ND         |
| Isoborneol                | 0.004 / 0.012  | N/A                            | ND            | ND         |
| Isopulegol                | 0.005 / 0.036  | N/A                            | ND            | ND         |
| Limonene                  | 0.005 / 0.036  | N/A                            | ND            | ND         |
| Linalool                  | 0.009 / 0.036  | N/A                            | ND            | ND         |
| Menthol                   | 0.008 / 0.025  | N/A                            | ND            | ND         |
| Myrcene                   | 0.008 / 0.025  | N/A                            | ND            | ND         |
| Nerol                     | 0.003 / 0.036  | N/A                            | ND            | ND         |
| Nerolidol                 | 0.006 / 0.021  | N/A                            | ND            | ND         |
| p-Cymene                  | 0.005 / 0.016  | N/A                            | ND            | ND         |
| Pulegone                  | 0.003 / 0.011  | N/A                            | ND            | ND         |
| Sabinene                  | 0.004 / 0.014  | N/A                            | ND            | ND         |
| Sabinene Hydrate          | 0.006 / 0.036  | N/A                            | ND            | ND         |
| Terpineol                 | 0.009 / 0.031  | N/A                            | ND            | ND         |
| Terpinolene               | 0.008 / 0.036  | N/A                            | ND            | ND         |
| trans- $\beta$ -Farnesene | 0.008 / 0.025  | N/A                            | ND            | ND         |
| Valencene                 | 0.009 / 0.180  | N/A                            | ND            | ND         |
| TOTAL TERPENOIDS          |                |                                | ND            | ND         |



## Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). ‡Analytes part of our California Select Panel.

\*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 - 04/05/2025 ✓ PASS

| COMPOUND            | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|---------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Abamectin           | 0.032 / 0.097  | 0.3                 | N/A                            | ND            | PASS   |
| Acephate            | 0.006 / 0.018  | 5                   | N/A                            | ND            | PASS   |
| Acequinocyl         | 0.009 / 0.027  | 4                   | N/A                            | ND            | PASS   |
| Acetamiprid         | 0.016 / 0.049  | 5                   | N/A                            | ND            | PASS   |
| Aldicarb            | 0.030 / 0.090  | ≥ LOD               | N/A                            | ND            | PASS   |
| 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  | 40                  | N/A                            | ND            | PASS   |
| Benzovindiflupyr    | 0.003 / 0.009  |                     | N/A                            | ND            |        |
| Bifenazate          | 0.003 / 0.009  | 5                   | N/A                            | ND            | PASS   |
| Bifenthrin          | 0.021 / 0.064  | 0.5                 | N/A                            | ND            | PASS   |
| Boscalid            | 0.003 / 0.009  | 10                  | N/A                            | ND            | PASS   |
| Buprofezin‡         | 0.006 / 0.019  |                     | N/A                            | ND            |        |
| Carbaryl            | 0.007 / 0.020  | 0.5                 | N/A                            | ND            | PASS   |
| Carbofuran          | 0.003 / 0.008  | ≥ LOD               | N/A                            | ND            | PASS   |
| Chlorantraniliprole | 0.006 / 0.018  | 40                  | N/A                            | ND            | PASS   |
| Chlorfenapyr*       | 0.005 / 0.015  | ≥ LOD               | N/A                            | ND            | PASS   |
| Chlorpyrifos        | 0.013 / 0.039  | ≥ LOD               | N/A                            | ND            | PASS   |
| Clofentezine        | 0.003 / 0.009  | 0.5                 | N/A                            | ND            | PASS   |
| Clothianidin        | 0.008 / 0.025  |                     | N/A                            | ND            |        |
| Coumaphos           | 0.003 / 0.010  | ≥ LOD               | N/A                            | ND            | PASS   |
| Cyantraniliprole    | 0.003 / 0.010  |                     | N/A                            | ND            |        |
| Cyfluthrin          | 0.052 / 0.159  | 1                   | N/A                            | ND            | PASS   |
| Cypermethrin        | 0.051 / 0.153  | 1                   | N/A                            | ND            | PASS   |
| Cyprodinil‡         | 0.003 / 0.008  |                     | N/A                            | ND            |        |
| Daminozide          | 0.026 / 0.077  | ≥ LOD               | N/A                            | ND            | PASS   |
| Deltamethrin        | 0.059 / 0.180  |                     | N/A                            | ND            |        |
| Diazinon            | 0.006 / 0.017  | 0.2                 | N/A                            | ND            | PASS   |
| Dichlorvos (DDVP)   | 0.012 / 0.038  | ≥ LOD               | N/A                            | ND            | PASS   |
| Dimethoate          | 0.003 / 0.009  | ≥ LOD               | N/A                            | ND            | PASS   |
| Dimethomorph        | 0.016 / 0.050  | 20                  | N/A                            | ND            | PASS   |
| 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  | ≥ LOD               | N/A                            | ND            | PASS   |
| Etofenprox          | 0.014 / 0.042  | ≥ LOD               | N/A                            | ND            | PASS   |
| Etoxazole           | 0.007 / 0.020  | 1.5                 | N/A                            | ND            | PASS   |

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**Pesticide Analysis** *Continued*

PESTICIDE TEST RESULTS - 04/05/2025 *continued* ✓ PASS

| COMPOUND                                   | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(µg/g) | RESULT |
|--------------------------------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Etridiazole*                               | 0.002 / 0.005     |                        | N/A                               | ND               |        |
| Fenhexamid                                 | 0.003 / 0.008     | 10                     | N/A                               | ND               | PASS   |
| Fenoxycarb                                 | 0.003 / 0.010     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Fenpyroximate                              | 0.007 / 0.020     | 2                      | N/A                               | ND               | PASS   |
| 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     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Flonicamid                                 | 0.007 / 0.022     | 2                      | N/A                               | ND               | PASS   |
| Fludioxonil                                | 0.003 / 0.010     | 30                     | N/A                               | ND               | PASS   |
| Fluopyram†                                 | 0.003 / 0.009     |                        | N/A                               | ND               |        |
| Hexythiazox                                | 0.003 / 0.010     | 2                      | N/A                               | ND               | PASS   |
| Imazalil                                   | 0.003 / 0.009     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Imidacloprid                               | 0.003 / 0.010     | 3                      | N/A                               | ND               | PASS   |
| Iprodione                                  | 0.077 / 0.233     |                        | N/A                               | ND               |        |
| Kinoprene                                  | 0.077 / 0.233     |                        | N/A                               | ND               |        |
| Kresoxim-methyl                            | 0.006 / 0.019     | 1                      | N/A                               | ND               | PASS   |
| λ-Cyhalothrin                              | 0.068 / 0.206     |                        | N/A                               | ND               |        |
| Malathion                                  | 0.003 / 0.009     | 5                      | N/A                               | ND               | PASS   |
| Metaxyl                                    | 0.003 / 0.010     | 15                     | N/A                               | ND               | PASS   |
| Methiocarb                                 | 0.003 / 0.008     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Methomyl                                   | 0.008 / 0.025     | 0.1                    | N/A                               | ND               | PASS   |
| Methoprene†                                | 0.172 / 0.521     |                        | N/A                               | ND               |        |
| Mevinphos                                  | 0.008 / 0.024     | ≥ LOD                  | N/A                               | ND               | PASS   |
| MGK-264                                    | 0.015 / 0.047     |                        | N/A                               | ND               |        |
| Myclobutanil                               | 0.003 / 0.009     | 9                      | N/A                               | ND               | PASS   |
| Naled                                      | 0.021 / 0.064     | 0.5                    | N/A                               | ND               | PASS   |
| Novaluron                                  | 0.002 / 0.005     |                        | N/A                               | ND               |        |
| Oxamyl                                     | 0.017 / 0.051     | 0.2                    | N/A                               | ND               | PASS   |
| Paclobutrazol                              | 0.003 / 0.010     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Parathion-methyl                           | 0.016 / 0.050     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Pentachloronitro-<br>benzene (Quintozene)* | 0.004 / 0.012     | 0.2                    | N/A                               | ND               | PASS   |
| Permethrin                                 | 0.056 / 0.168     | 20                     | N/A                               | ND               | PASS   |
| Phenothrin                                 | 0.016 / 0.047     |                        | N/A                               | ND               |        |
| Phosmet                                    | 0.007 / 0.020     | 0.2                    | N/A                               | ND               | PASS   |
| Piperonyl Butoxide                         | 0.010 / 0.029     | 8                      | N/A                               | ND               | PASS   |
| Pirimicarb                                 | 0.003 / 0.009     |                        | N/A                               | ND               |        |
| Prallethrin                                | 0.015 / 0.046     | 0.4                    | N/A                               | ND               | PASS   |
| Propiconazole                              | 0.027 / 0.080     | 20                     | N/A                               | ND               | PASS   |
| Propoxur                                   | 0.003 / 0.008     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Pyraclostrobin                             | 0.003 / 0.010     |                        | N/A                               | ND               |        |

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**Pesticide Analysis** *Continued*

PESTICIDE TEST RESULTS - 04/05/2025 *continued* **PASS**

| COMPOUND           | LOD/LOQ<br>(µg/g) | ACTION LIMIT<br>(µg/g) | MEASUREMENT<br>UNCERTAINTY (µg/g) | RESULT<br>(µg/g) | RESULT |
|--------------------|-------------------|------------------------|-----------------------------------|------------------|--------|
| Pyrethrins         | 0.016 / 0.049     | 1                      | N/A                               | ND               | PASS   |
| Pyridaben          | 0.005 / 0.017     | 3                      | N/A                               | ND               | PASS   |
| Pyriproxyfen       | 0.003 / 0.009     |                        | N/A                               | ND               |        |
| Resmethrin         | 0.013 / 0.039     |                        | N/A                               | ND               |        |
| Spinetoram         | 0.003 / 0.010     | 3                      | N/A                               | ND               | PASS   |
| Spinosad           | 0.003 / 0.010     | 3                      | N/A                               | ND               | PASS   |
| Spirodiclofen      | 0.031 / 0.093     |                        | N/A                               | ND               |        |
| Spiromesifen       | 0.016 / 0.050     | 12                     | N/A                               | ND               | PASS   |
| Spirotetramat      | 0.003 / 0.010     | 13                     | N/A                               | ND               | PASS   |
| Spiroxamine        | 0.020 / 0.062     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Tebuconazole       | 0.003 / 0.010     | 2                      | N/A                               | ND               | PASS   |
| Tebufenozide       | 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     | ≥ LOD                  | N/A                               | ND               | PASS   |
| Thiamethoxam       | 0.003 / 0.010     | 4.5                    | N/A                               | ND               | PASS   |
| Thiophanate-methyl | 0.013 / 0.040     |                        | N/A                               | ND               |        |
| Trifloxystrobin    | 0.003 / 0.009     | 30                     | N/A                               | ND               | PASS   |


**Mycotoxin Analysis**

MYCOTOXIN TEST RESULTS - 04/05/2025 **PASS**

| COMPOUND        | LOD/LOQ<br>(µg/kg) | ACTION LIMIT<br>(µg/kg) | MEASUREMENT<br>UNCERTAINTY (µg/kg) | RESULT<br>(µg/kg) | RESULT |
|-----------------|--------------------|-------------------------|------------------------------------|-------------------|--------|
| 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                |        |
| Ochratoxin A    | 1.6 / 5.0          | 20                      | N/A                                | ND                | PASS   |
| Total Aflatoxin |                    | 20                      |                                    | ND                | PASS   |

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

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



## 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 - 04/05/2025 ✔ PASS

| COMPOUND                                                        | LOD/LOQ (µg/g) | ACTION LIMIT (µg/g) | MEASUREMENT UNCERTAINTY (µg/g) | RESULT (µg/g) | RESULT |
|-----------------------------------------------------------------|----------------|---------------------|--------------------------------|---------------|--------|
| Propane                                                         | 0.234 / 0.781  | 5000                | N/A                            | ND            | PASS   |
| 2-Methylpropane (Isobutane)                                     | 0.052 / 0.173  |                     | N/A                            | ND            |        |
| n-Butane                                                        | 0.019 / 0.063  | 5000                | N/A                            | ND            | PASS   |
| Total Butanes                                                   |                |                     |                                | ND            |        |
| n-Pentane                                                       | 0.310 / 1.033  | 5000                | N/A                            | ND            | PASS   |
| n-Hexane                                                        | 0.110 / 0.366  | 290                 | N/A                            | ND            | PASS   |
| 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  | 5000                | N/A                            | ND            | PASS   |
| Total Heptanes                                                  |                |                     |                                | ND            |        |
| Benzene                                                         | 0.089 / 0.295  | 1                   | N/A                            | ND            | PASS   |
| Toluene                                                         | 0.115 / 0.382  | 890                 | N/A                            | ND            | PASS   |
| 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene) | 0.451 / 1.502  |                     | N/A                            | ND            |        |
| 1,2-Dimethylbenzene (o-Xylene)                                  | 0.387 / 1.289  |                     | N/A                            | ND            |        |
| Total Xylenes                                                   |                | 2170                |                                | ND            | PASS   |
| Methanol                                                        | 53.92 / 163.4  | 3000                | N/A                            | ND            | PASS   |
| Ethanol                                                         | 8.984 / 27.23  | 5000                | N/A                            | ND            | PASS   |
| 2-Propanol (Isopropyl Alcohol)                                  | 8.421 / 25.52  | 5000                | N/A                            | ND            | PASS   |
| Acetone                                                         | 10.59 / 32.08  | 5000                | N/A                            | ND            | PASS   |
| Ethyl Acetate                                                   | 1.123 / 3.745  | 5000                | 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 - 04/04/2025 ✔ 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                            | ND            | PASS   |
| Mercury  | 0.002 / 0.01   | 3                   | N/A                            | ND            | PASS   |



## 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) - 04/04/2025  PASS

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

MICROBIOLOGY TEST RESULTS (PLATING) - 04/04/2025 ND

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

NOTES

Reason for Amendment: Photo Update Sample serving mass provided by client. Sample unit mass provided by client.