

**CERTIFICATE OF ANALYSIS**

**Order Type:** Cannabis  
**Order ID:** OR2019-6143

**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown

**Harvest/Extract Lot:** CG121904  
**Harvest/Extract Batch:** None

**Cultivar (Strain):** Citral Glue  
**Sample Date:** 12/19/2019

**Lab ID:** SA2019-19298  
**Date Received:** 12/19/2019

**Sample Matrix:** Flower  
**Date Completed:** 12/26/2019

**Remarks:**

**CANNABINOID (POTENCY) PROFILE**

**Analysis Date/Time:** 12/21/2019 1122  
**Analyst:** OL

**Method:** HPLC/DAD  
**Instrument:** Agilent 1100

**Moisture Content (%):** 15.6  
**Water Activity (aw):** 0.4312 @ 23.45°C

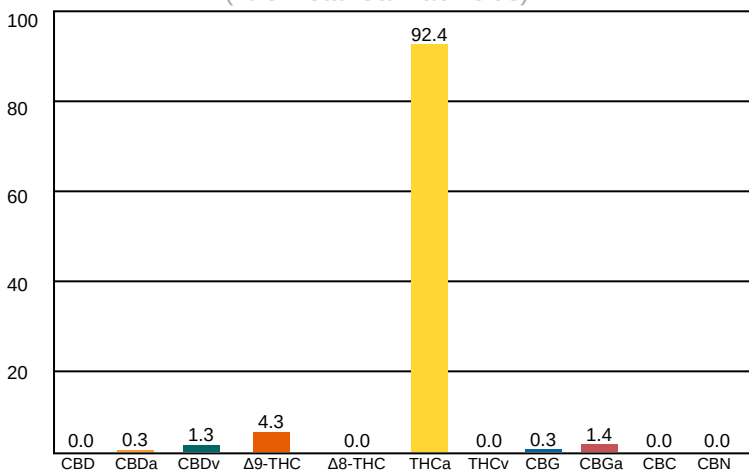
| Cannabinoid      | Result (%)    | Result (mg/g) | Reporting Limit (mg/g) | Result (mg/mL) | Per Unit (mg) |
|------------------|---------------|---------------|------------------------|----------------|---------------|
| CBD              | -             | -             | 0.0508                 | -              | -             |
| CBDa             | 0.0701        | 0.701         | 0.0508                 | -              | 0.701         |
| CBDv             | 0.357         | 3.57          | 0.0508                 | -              | 4             |
| Δ9-THC           | 1.17          | 11.7          | 0.0508                 | -              | 12            |
| Δ8-THC           | -             | -             | 0.0508                 | -              | -             |
| THCa             | 25            | 250           | 0.0508                 | -              | 250           |
| THCv             | -             | -             | 0.0508                 | -              | -             |
| CBC              | -             | -             | 0.0508                 | -              | -             |
| CBG              | 0.0814        | 0.814         | 0.0508                 | -              | 0.814         |
| CBGa             | 0.392         | 3.92          | 0.0508                 | -              | 4             |
| CBN              | -             | -             | 0.0508                 | -              | -             |
| <b>TOTAL</b>     | <b>27.1</b>   | <b>271</b>    |                        |                | <b>271</b>    |
| <b>TOTAL THC</b> | <b>23.1</b>   | <b>231</b>    |                        |                | <b>231</b>    |
| <b>TOTAL CBD</b> | <b>0.0614</b> | <b>0.614</b>  |                        |                | <b>0.614</b>  |



**UNIT MASS (g):** 1

"-" Not detected above RL.

**Cannabinoid Distribution**  
(% of Total Cannabinoids)



Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110%  
Replicate Uncertainties: <5% RSD, <20% RPD  
Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total THC = (THCa x 0.877) + Δ9-THC  
Total CBD = (CBDa x 0.877) + CBD

Percentage results are reported by mass.  
mg/g results are reported as mass component per mass material.

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

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### TERPENOID PROFILE

**Analysis Date/Time:** 12/21/2019 1122  
**Analyst:** OL

**Method:** HS/GC/FID (Internal Method-002)  
**Instrument:** Agilent 6890

**Deviations from SOP:**  
None

| <u>Terpene</u>      | <u>Result</u><br><u>(µg/g)</u> | <u>Result</u><br><u>(%)</u> |   |
|---------------------|--------------------------------|-----------------------------|---|
| α-Bisabolol         | -                              | -                           |   |
| Camphene            | 270                            | 0.027                       |   |
| δ-3-Carene          | -                              | -                           |   |
| β-Caryophyllene     | 5944                           | 0.594                       | █ |
| Caryophyllene oxide | 732                            | 0.0732                      |   |
| p-Cymene            | -                              | -                           |   |
| Eucalyptol          | -                              | -                           |   |
| Geraniol            | 202                            | 0.0202                      |   |
| Guaiol              | -                              | -                           |   |
| α-Humulene          | 1904                           | 0.19                        | █ |
| Isopulegol          | -                              | -                           |   |
| d-Limonene          | 7340                           | 0.734                       | █ |
| Linalool            | 1086                           | 0.109                       |   |
| β-Myrcene           | 2606                           | 0.261                       | █ |
| cis-Nerolidol       | -                              | -                           |   |
| trans-Nerolidol     | -                              | -                           |   |
| α-Ocimene           | 200                            | 0.02                        |   |
| β-Ocimene           | -                              | -                           |   |
| α-Pinene            | 650                            | 0.065                       |   |
| β-Pinene            | 1064                           | 0.106                       | █ |
| α-Terpinene         | -                              | -                           |   |
| γ-Terpinene         | -                              | -                           |   |
| Terpinolene         | 176                            | 0.0176                      |   |
| <b>TOTAL</b>        | <b>22174</b>                   | <b>2.22</b>                 |   |



*Abbreviations:* HS - Headspace, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

**Reporting Limit (µg/g): 200**

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**Remarks:**

### PESTICIDES PROFILE

**Analysis Date/Time:** 12/21/2019 1122  
**Analyst:** OL

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

| <u>Pesticide</u>            | <u>Result</u><br>(µg/g) | <u>Action Level</u><br>(µg/g) |
|-----------------------------|-------------------------|-------------------------------|
| Abamectin (71751-41-2)      | -                       | 0.5                           |
| Azoxystrobin (131860-33-8)  | -                       | 0.5                           |
| Bifenazate* (149877-41-8)   | -                       | 0.5                           |
| Etoxazole (153233-91-1)     | -                       | 0.5                           |
| Imazalil (35554-44-0)       | -                       | 0.5                           |
| Imidacloprid (138261-41-3)  | -                       | 0.5                           |
| Malathion (121-75-5)        | -                       | 0.5                           |
| Myclobutanil (88671-89-0)   | -                       | 0.5                           |
| Permethrins* (52645-53-1)   | -                       | 0.5                           |
| Spinosad A (168316-95-8)    | -                       | 0.5                           |
| Spinosad D (168316-95-8)    | -                       | 0.5                           |
| Spiromesifen (283594-90-1)  | -                       | 0.5                           |
| Spirotetramat (203313-25-1) | -                       | 0.5                           |
| Tebuconazole (80443-41-0)   | -                       | 0.5                           |

Color Key

|                      |
|----------------------|
| RESULT < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (µg/g)**  
1/2 of AL

"-" not detected above reporting limit

"\*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

Permethrins measured as the cumulative residue of the *cis*- and *trans*-permethrin isomers.



**Abbreviations:** LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

| <u>Pesticide</u> | <u>Synonym(s)</u> | <u>Pesticide</u> | <u>Synonym(s)</u> | <u>Pesticide</u> | <u>Synonym(s)</u> |
|------------------|-------------------|------------------|-------------------|------------------|-------------------|
| Cyfluthrin       | Baythroid         | Myclobutanil     | Systhane          | Propiconazole    | Tilt              |
| DDVP             | Dichlorvos        | Naled            | Dibrom            | Propoxur         | Baygon            |
| Ethoprophos      | Prophos           | Phosmet          | Imidan            |                  |                   |

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**MYCOTOXIN PROFILE**

**Analysis Date/Time:** 12/21/2019 1122  
**Analyst:** OL

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

| <u>Mycotoxin</u> | <u>Result</u><br>(µg/kg) | <u>Action Level</u><br>(µg/kg) |
|------------------|--------------------------|--------------------------------|
| Aflatoxin B1     | -                        | 20                             |
| Aflatoxin B2     | -                        | 20                             |
| Aflatoxin G1     | -                        | 20                             |
| Aflatoxin G2     | -                        | 20                             |
| Ochratoxin A     | -                        | 20                             |



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit,  
RL - Reporting Limit, AL - Action Level

**Color Key**

|                      |
|----------------------|
| RESULT < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (CFU/g)**

1

"-" not detected above reporting limit

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**HEAVY METAL PROFILE**

**Analysis Date/Time:** 12/21/2019 1122  
**Analyst:** OL

**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000

**Deviations from SOP:**  
None

| <u>Heavy Metal</u> | <u>Result</u><br>(µg/kg) | <u>Action Level</u><br>(µg/kg) |
|--------------------|--------------------------|--------------------------------|
| Arsenic (As)       | -                        | 400                            |
| Cadmium (Cd)       | -                        | 440                            |
| Lead (Pb)          | -                        | 1000                           |
| Mercury (Hg)       | -                        | 200                            |



*Abbreviations:* ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

**Color Key**

|                      |
|----------------------|
| RESULT < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (µg/kg)**  
50

"-" not detected above reporting limit

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**MICROBIOLOGICAL PROFILE**

**Analysis Date/Time:** 12/21/2019 1122  
**Analyst:** OL

**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator

**Deviations from SOP:**  
None

| <u>Bacteria/Microbe</u>    | <u>Result (CFU/g)</u> | <u>Action Level (CFU/g)</u> |
|----------------------------|-----------------------|-----------------------------|
| Aerobic Plate Count, Total | Absent                | -                           |
| Escherichia Coli (E. Coli) | Absent                | 1                           |
| Mold                       | Absent                | 10000                       |
| Yeast                      | Absent                | 10000                       |
| Salmonella spp.            | Absent                | 1                           |



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

**Color Key**

|                      |
|----------------------|
| RESULT < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (CFU/g)**  
1

"-" not detected above reporting limit

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