

## SUMMARY OF ANALYSIS (SAMPLE ID: SA25422)

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR7942 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | CC040204                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 04/09/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 04/09/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Citradelic Cookies |                          |                         | <b>Date Completed:</b> 04/13/2020 |

\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed.

\*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

|                             |                  |                            |                  |
|-----------------------------|------------------|----------------------------|------------------|
| <b>Moisture Content (%)</b> | <b>PASS/FAIL</b> | <b>Water Activity (aw)</b> | <b>PASS/FAIL</b> |
| 13.7                        | PASS             | 0.39 @ 22.0°C              | PASS             |

| <u>Cannabinoids (Top 3)</u> | <u>(%)</u> | <u>mg/g</u> |
|-----------------------------|------------|-------------|
| THCa                        | 23.6       | 236         |
| CBGa                        | 0.6        | 6           |
| Δ9-THC                      | 0.424      | 4           |
| TOTAL CBD                   | 0.0959     | 0.959       |
| TOTAL THC                   | 21.1       | 211         |
| TOTAL CANNABINOIDS          | 24.9       | 249         |

| <u>Terpenes (Top 5)</u> | <u>(%)</u> | <u>µg/g</u> |
|-------------------------|------------|-------------|
| d-Limonene              | 0.268      | 2675        |
| β-Caryophyllene         | 0.240      | 2395        |
| α-Humulene              | 0.087      | 866         |
| β-Pinene                | 0.062      | 622         |
| β-Myrcene               | 0.048      | 481         |
| TOTAL TERPENES          | 0.843      | 8426        |

| <u>Contaminants</u> | <u>PASS/FAIL</u> |
|---------------------|------------------|
| Heavy Metals:       | PASS             |
| Microbiology:       | PASS             |
| Mycotoxins:         | PASS             |
| Pesticides:         | PASS             |
| Visual Inspection:  | PASS             |

### Sample Picture Upon Receipt



Scan the QR code to verify results.

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

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## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25422)

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## CANNABINOID (POTENCY) PROFILE

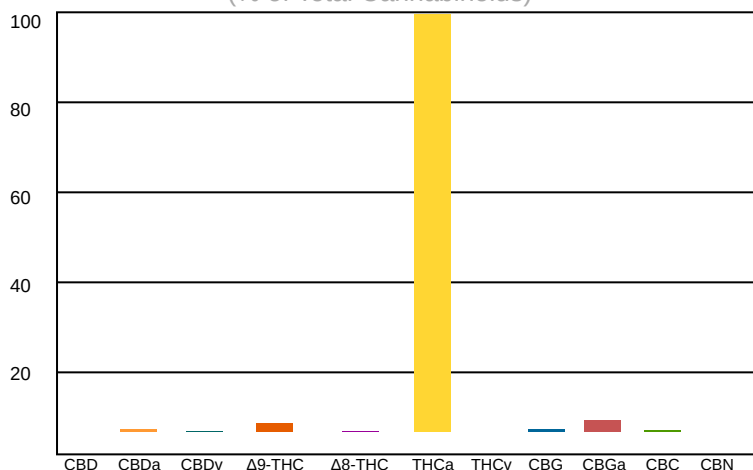
**Analysis Date/Time:** 04/09/2020 1206 **Method:** HPLC/DAD **Moisture Content (%):** 13.71  
**Analyst:** WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.3948 @ 22.01Å°C

| <u>Cannabinoid</u> | <u>Result (%)</u> | <u>Result (mg/g)</u> | <u>Reporting Limit (mg/g)</u> | <u>Result (mg/mL)</u> | <u>Per Unit (mg)</u> |
|--------------------|-------------------|----------------------|-------------------------------|-----------------------|----------------------|
| CBD                | -                 | -                    | 0.0502                        | -                     | -                    |
| CBDa               | 0.109             | 1.09                 | 0.0502                        | -                     | 1.09                 |
| CBDv               | 0.0132            | 0.132                | 0.0502                        | -                     | 0.132                |
| Δ9-THC             | 0.424             | 4.24                 | 0.0502                        | -                     | 4                    |
| Δ8-THC             | 0.0161            | 0.161                | 0.0502                        | -                     | 0.161                |
| THCa               | 23.6              | 236                  | 0.0502                        | -                     | 236                  |
| THCv               | -                 | -                    | 0.0502                        | -                     | -                    |
| CBC                | 0.029             | 0.29                 | 0.0502                        | -                     | 0.29                 |
| CBG                | 0.129             | 1.29                 | 0.0502                        | -                     | 1.29                 |
| CBGa               | 0.6               | 6                    | 0.0502                        | -                     | 6                    |
| CBN                | -                 | -                    | 0.0502                        | -                     | -                    |
| <b>TOTAL</b>       | <b>24.9</b>       | <b>249</b>           | -                             | -                     | <b>249</b>           |
| <b>TOTAL THC</b>   | <b>21.1</b>       | <b>211</b>           | -                             | -                     | <b>211</b>           |
| <b>TOTAL CBD</b>   | <b>0.0959</b>     | <b>0.959</b>         | -                             | -                     | <b>0.959</b>         |



## Cannabinoid Distribution

(% of Total Cannabinoids)



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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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## TERPENOID PROFILE

**Analysis Date/Time:** 04/09/2020 1206

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

**Deviations from SOP:**

**Analyst:** DJ

**Instrument:** Agilent 6890

None

| <u>Terpene</u>      | <u>Result</u><br><u>(µg/g)</u> | <u>Result</u><br><u>(%)</u> |   |
|---------------------|--------------------------------|-----------------------------|---|
| α-Bisabolol         | 290                            | 0.029                       | ■ |
| Camphene            | 117                            | 0.0117                      | ■ |
| δ-3-Carene          | -                              | -                           |   |
| β-Caryophyllene     | 2395                           | 0.24                        | ■ |
| Caryophyllene oxide | 162                            | 0.0162                      | ■ |
| p-Cymene            | -                              | -                           |   |
| Eucalyptol          | -                              | -                           |   |
| Geraniol            | -                              | -                           |   |
| Guaiol              | -                              | -                           |   |
| α-Humulene          | 866                            | 0.0866                      | ■ |
| Isopulegol          | -                              | -                           |   |
| d-Limonene          | 2675                           | 0.268                       | ■ |
| Linalool            | 479                            | 0.0479                      | ■ |
| β-Myrcene           | 481                            | 0.0481                      | ■ |
| cis-Nerolidol       | -                              | -                           |   |
| trans-Nerolidol     | -                              | -                           |   |
| α-Ocimene           | -                              | -                           |   |
| β-Ocimene           | -                              | -                           |   |
| α-Pinene            | 339                            | 0.0339                      | ■ |
| β-Pinene            | 622                            | 0.0622                      | ■ |
| α-Terpinene         | -                              | -                           |   |
| γ-Terpinene         | -                              | -                           |   |
| Terpinolene         | -                              | -                           |   |
| <b>TOTAL</b>        | <b>8426</b>                    | <b>0.843</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): 2.01**

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### PESTICIDES PROFILE

**Analysis Date/Time:** 04/09/2020 1206

**Method:** LC/MS/MS

**Deviations from SOP:**

**Analyst:** DJ

**Instrument:** Waters Acquity/TQD

None

| <u>Pesticide</u>            | <u>Result</u><br>(µg/g) | <u>Action Level</u><br>(µg/g) | <u>Color Key</u>     |
|-----------------------------|-------------------------|-------------------------------|----------------------|
| Abamectin (71751-41-2)      | -                       | 0.5                           | RESULT < 1/2 AL      |
| Azoxystrobin (131860-33-8)  | -                       | 0.5                           | 1/2 AL < RESULT < AL |
| Bifenazate* (149877-41-8)   | -                       | 0.5                           | RESULT > AL          |
| Etoazazole (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                           |                      |

**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:** 04/09/2020 1206**Method:** LC/MS/MS**Deviations from SOP:****Analyst:** DJ**Instrument:** Waters Acquity/TQD

None

| <b>Mycotoxin</b> | <b>Result<br/>(µg/kg)</b> | <b>Action Level<br/>(µg/kg)</b> |
|------------------|---------------------------|---------------------------------|
| 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**

|                                   |
|-----------------------------------|
| <b>RESULT &lt; 1/2 AL</b>         |
| <b>1/2 AL &lt; RESULT &lt; AL</b> |
| <b>RESULT &gt; AL</b>             |

**Reporting Limit (CFU/g)**

1

"- " not detected above  
reporting limit

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**HEAVY METAL PROFILE****Analysis Date/Time:** 04/09/2020 1206**Method:** ICP/MS**Deviations from SOP:****Analyst:** CC**Instrument:** PerkinElmer Elan 9000

None

| <b>Heavy Metal</b> | <b>Result<br/>(µg/kg)</b> | <b>Action Level<br/>(µg/kg)</b> |
|--------------------|---------------------------|---------------------------------|
| 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**

|                                   |
|-----------------------------------|
| <b>RESULT &lt; 1/2 AL</b>         |
| <b>1/2 AL &lt; RESULT &lt; AL</b> |
| <b>RESULT &gt; AL</b>             |

**Reporting Limit (µg/kg)**  
50"- " not detected above  
reporting limit

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**MICROBIOLOGICAL PROFILE**

|  |   |                             |
|--|---|-----------------------------|
| <b>Analysis Date/Time:</b> 04/09/2020 1206 | <b>Method:</b> Hardy Diagnostics CompactDry | <b>Deviations from SOP:</b> |
| <b>Analyst:</b> KB                         | <b>Instrument:</b> Thermo Incubator         | None                        |

| <b>Bacteria/Microbe</b>    | <b>Result<br/>(CFU/g)</b> | <b>Action Level<br/>(CFU/g)</b> |
|----------------------------|---------------------------|---------------------------------|
| 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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