

Oklahoma City Location 3680 E I-240 Service Rd Oklahoma City, OK 73135 (405) 595-0344 **Tulsa Location** 14720 E Admiral Pl, Ste H Tulsa, OK 74108 (918) 340-7139

### **SUMMARY OF ANALYSIS (SAMPLE ID: SA27454)**

Testing Location:Customer ID: 1648Order ID: OR8548Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 WC052005 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 05/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 05/21/2020

Cultivar (Strain) or Sample Description: White chocolate

Date Completed: 05/26/2020

<sup>\*</sup>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.

| Moisture Content (%) | PASS/FAIL   | Water Activity (aw) | PASS/FAIL |
|----------------------|-------------|---------------------|-----------|
| 12.4                 | PASS        | 0.45 @ 26.4°C       | PASS      |
|                      |             |                     |           |
| Cannabinoids (T      | op 3)       | <u>(%)</u>          | mg/g      |
| THCa                 |             | 20.8                | 208       |
| CBGa                 |             | 0.536               | 5         |
| Δ9-ΤΗС               |             | 0.384               | 4         |
| TOTAL CBD            | )           | 0.0704              | 0.704     |
| TOTAL THO            |             | 18.6                | 186       |
| TOTAL CANNABI        | NOIDS       | 22                  | 220       |
| Terpenes (Top        | <u>5)</u>   | <u>(%)</u>          | μg/g      |
| β-Caryophylle        | ne          | 0.821               | 8207      |
| α-Humulene           | α-Humulene  |                     | 2976      |
| α-Bisabolol          | α-Bisabolol |                     | 1986      |
| d-Limonene           | d-Limonene  |                     | 1710      |
| β-Myrcene            | β-Myrcene   |                     | 801       |
| TOTAL TERPENES       |             | 1.94                | 19351     |

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





Scan the QR code to verify results.

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Page 1 of 7

05/26/2020

<sup>\*</sup>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.



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### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27454)**

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OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 WC052005 **Mass:** 5g

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Cultivar (Strain) or Sample Description: White chocolate

Date Completed: 05/26/2020

## **CANNABINOID (POTENCY) PROFILE**

Analysis Date/Time: 05/21/2020 1556 Method: HPLC/DAD Moisture Content (%): 12.4

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4534 @ 26.4°C

| Cannabinoid | Result (%) | Result<br>(mg/g) | Reporting Limit (mg/g) | Result<br>(mg/mL) | Per Unit (mg) |
|-------------|------------|------------------|------------------------|-------------------|---------------|
| CBD         | 0.0057     | 0.057            | 0.0497                 | -                 | 0.057         |
| CBDa        | 0.0738     | 0.738            | 0.0497                 | -                 | 0.738         |
| CBDv        | 0.0184     | 0.184            | 0.0497                 | -                 | 0.184         |
| Δ9-ΤΗС      | 0.384      | 3.84             | 0.0497                 | -                 | 4             |
| Δ8-ΤΗС      | 0.0271     | 0.271            | 0.0497                 | -                 | 0.271         |
| THCa        | 20.8       | 208              | 0.0497                 | -                 | 208           |
| THCv        | 0.0154     | 0.154            | 0.0497                 | -                 | 0.154         |
| CBC         | 0.0549     | 0.549            | 0.0497                 | -                 | 0.549         |
| CBG         | 0.102      | 1.02             | 0.0497                 | -                 | 1.02          |
| CBGa        | 0.536      | 5.36             | 0.0497                 | -                 | 5             |
| CBN         | -          | -                | 0.0497                 | -                 | -             |
| TOTAL       | 22         | 220              |                        | -                 | 220           |
| TOTAL THC   | 18.6       | 186              |                        | -                 | 186           |
| TOTAL CBD   | 0.0704     | 0.704            |                        | _                 | 0.704         |

# **Cannabinoid Distribution**

(% of Total Cannabinoids)

80

60

40

20

CBD CBDa CBDv \(Delta\) D9-THC \(Delta\)-THC THCa THCv CBG CBGa CBC CBN

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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) +  $\Delta 9$ -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







Cultivar (Strain) or Sample Description: White chocolate

**Arkansas Location** 232 S Broadview St Greenbrier, AR 72058 (501) 679-2616

**Oklahoma City Location** 3680 E I-240 Service Rd Oklahoma City, OK 73135 (405) 595-0344

**Tulsa Location** 14720 E Admiral Pl, Ste H Tulsa, OK 74108 (918) 340-7139

**Date Completed:** 05/26/2020

# **SUMMARY OF ANALYSIS (SAMPLE ID: SA27454)**

Order ID: OR8548 **Testing Location:** Customer ID: 1648 Sample Type: Primary **OKC** Matrix: Flower Red Dirt Sungrown Lot Number:

3680 E. I-240 Service Rd. WC052005 P.O. Box 1399 Mass: 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 05/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 05/21/2020

### TERPENOID PROFILE

**Deviations from SOP: Analysis Date/Time:** 05/21/2020 1556 Method: HS/GC/FID (Internal Method-002)

Analyst: DJ **Instrument:** Agilent 6890 None

| <u>Terpene</u>      | <u>Result</u><br>(μg/g) | Result (%) |
|---------------------|-------------------------|------------|
| α-Bisabolol         | 1986                    | 0.199      |
| Camphene            | 63                      | 0.00634    |
| δ-3-Carene          | 23                      | 0.00231    |
| β-Caryophyllene     | 8207                    | 0.821      |
| Caryophyllene oxide | 316                     | 0.0316     |
| p-Cymene            | 36                      | 0.00364    |
| Eucalyptol          | -                       | -          |
| Geraniol            | 101                     | 0.0101     |
| Guaiol              | 175                     | 0.0175     |
| α-Humulene          | 2976                    | 0.298      |
| Isopulegol          | 78                      | 0.00781    |
| d-Limonene          | 1710                    | 0.171      |
| Linalool            | 641                     | 0.0641     |
| β-Myrcene           | 801                     | 0.0801     |
| cis-Nerolidol       | -                       | -          |
| trans-Nerolidol     | 426                     | 0.0426     |
| α-Ocimene           | 75                      | 0.00751    |
| β-Ocimene           | 476                     | 0.0476     |
| α-Pinene            | 438                     | 0.0438     |
| β-Pinene            | 432                     | 0.0432     |
| α-Terpinene         | 36                      | 0.00364    |
| γ-Terpinene         | 40                      | 0.00399    |
| Terpinolene         | 312                     | 0.0312     |
| TOTAL               | 19351                   | 1.94       |

Reporting Limit (µg/g): 1.99 ГОТАL 19351





Page 3 of 7

05/26/2020



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OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 WC052005 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 05/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 05/21/2020

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#### **PESTICIDES PROFILE**

**Analysis Date/Time:** 05/21/2020 1556 **Method:** LC/MS/MS **Deviations from SOP:** 

Analyst: DJ Instrument: Waters Acquity/TQD None

| Pesticide                   | Result<br>(μg/g) | Action Level (μg/g) | Color Key  |
|-----------------------------|------------------|---------------------|--|
| Abamectin (71751-41-2)      | (PS/S/           | 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  |
| Etoxazole (153233-91-1)     | -                | 0.5                 | Reporting Limit (μg/g)                                 |
| Imazalil (35554-44-0)       | -                | 0.5                 | <del>κεροι ting Limit (μg/g)</del><br>1/2 of AL        |
| Imidacloprid (138261-41-3)  | -                | 0.5                 |  |
| Malathion (121-75-5)        | -                | 0.5                 | "-" not detected above                                 |
| Myclobutanil (88671-89-0)   | -                | 0.5                 | reporting limit  |
| Permethrins* (52645-53-1)   | -                | 0.5                 | "*" analyzed by GC/MS                                  |
| Spinosad A (168316-95-8)    | -                | 0.5                 | (all others analyzed                                   |
| Spinosad D (168316-95-8)    | -                | 0.5                 | by LC/MS/MS)   |
| Spiromesifen (283594-90-1)  | -                | 0.5                 | Permethrins measured as                                |
| Spirotetramat (203313-25-1) | -                | 0.5                 | the cumulative residue of                              |
| Tebuconazole (80443-41-0)   | -                | 0.5                 | the <i>cis</i> - and <i>trans</i> -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> | Synonym(s) | <u>Pesticide</u> | Synonym(s) | Pesticide Pesticide | Synonym(s) |
|------------------|------------|------------------|------------|---------------------|------------|
| Cyfluthrin       | Baythroid  | Myclobutanil     | Systhane   | Propiconazole       | Tilt       |
| DDVP             | Dichlorvos | Naled            | Dibrom     | Propoxur            | Baygon     |
| Ethonrophos      | Prophos    | Phosmet          | Imidan     |                     |            |

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#### **MYCOTOXIN PROFILE**

Analysis Date/Time: 05/21/2020 1556 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD 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)

"-" not detected above reporting limit

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Page 5 of 7

05/26/2020



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Date Completed: 05/26/2020

#### **HEAVY METAL PROFILE**

**Analysis Date/Time:** 05/21/2020 1556 **Method:** ICP/MS **Deviations from SOP:** 

Analyst: CC Instrument: PerkinElmer Elan 9000 None

| Heavy Metal  | <u>Result</u><br>(μg/kg) | <u>Action Level</u> (μg/kg) |
|--------------|--------------------------|-----------------------------|
| Arsenic (As) | -                        | 400                         |
| Cadmium (Cd) | 176                      | 440                         |
| Lead (Pb)    | 11.9                     | 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:** 05/21/2020 1556 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: DJ Instrument: Thermo Incubator Non

Bacteria/Microbe Result **Action Level** (CFU/g) (CFU/g) Escherichia Coli (E. Coli) **Absent** 1 Mold/Yeast Absent 10000 Salmonella spp. Absent 1 Staphylococcus Aureus 1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested Absent - Not Detected Above RL, Present - Detected Above RL

Color Key

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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