

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: SA25999)

Testing Location: Order ID: OR8100 **Customer ID: 1648** Sample Type: Primary **OKC** Matrix: Flower Red Dirt Sungrown Lot Number:

3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 Mass: 5g

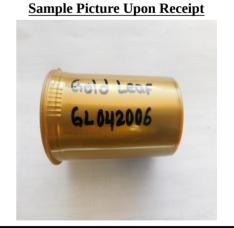
Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Cultivar (Strain) or Sample Description: Gold Leaf **Date Completed:** 04/27/2020

^{*}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 |
|-----------------------------|-----------------|---------------------|-----------|
| 16.1 | PASS | 0.44 @ 21.1°C | PASS |
| | | | |
| <u>Cannabinoids</u> (To | op 3) | <u>(%)</u> | mg/g |
| THCa | | 28.5 | 285 |
| CBGa | | 3.48 | 35 |
| Δ9-ΤΗС | | 0.664 | 7 |
| TOTAL CBD | TOTAL CBD | | 0.885 |
| TOTAL THC | | 25.7 | 257 |
| TOTAL CANNABINOIDS | | 33 | 330 |
| Terpenes (Top | <u>5)</u> | <u>(%)</u> | µg/g |
| d-Limonene | | 0.481 | 4807 |
| β-Myrcene | | 0.255 | 2554 |
| β-Caryophyller | β-Caryophyllene | | 997 |
| β-Pinene | β-Pinene | | 643 |
| α-Pinene | | 0.049 | 495 |
| TOTAL TERPENES | | 1.13 | 11342 |

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





Scan the QR code to verify results.

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.





^{*}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.



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

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25999)

Testing Location: Customer ID: 1648 Order ID: OR8100 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Cultivar (Strain) or Sample Description: Gold Leaf

Date Completed: 04/27/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/21/2020 1716 Method: HPLC/DAD Moisture Content (%): 16.1

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4409 @ 21.06°C

| Cannabinoid | Result | Result | Reporting Limit | Result | Per Unit |
|-------------|------------|---------------|-----------------|---------|-----------------|
| | <u>(%)</u> | <u>(mg/g)</u> | (mg/g) | (mg/mL) | (mg) |
| CBD | - | - | 0.0495 | - | - |
| CBDa | 0.101 | 1.01 | 0.0495 | - | 1.01 |
| CBDv | - | - | 0.0495 | - | - |
| Δ9-ΤΗС | 0.664 | 6.64 | 0.0495 | - | 7 |
| Δ8-ΤΗС | 0.037 | 0.37 | 0.0495 | - | 0.37 |
| THCa | 28.5 | 285 | 0.0495 | - | 285 |
| THCv | 0.0187 | 0.187 | 0.0495 | - | 0.187 |
| CBC | 0.0452 | 0.452 | 0.0495 | - | 0.452 |
| CBG | 0.145 | 1.45 | 0.0495 | - | 1.45 |
| CBGa | 3.48 | 34.8 | 0.0495 | - | 35 |
| CBN | 0.00695 | 0.0695 | 0.0495 | - | 0.0695 |
| TOTAL | 33 | 330 | | - | 330 |
| TOTAL THC | 25.7 | 257 | | - | 257 |
| TOTAL CBD | 0.0885 | 0.885 | | - | 0.885 |

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

20

CBD CBDa CBDv Δ9-THC Δ8-THC THCa THCv CBG CBGa CBC CBN

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

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







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 Collected: 04/21/2020

Date Completed: 04/27/2020

SUMMARY OF ANALYSIS (SAMPLE ID: SA25999)

Testing Location: Customer ID: 1648 Order ID: OR8100 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 **Mass:** 5g

License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Batch Number:

Cultivar (Strain) or Sample Description: Gold Leaf

Oklahoma City, OK 73135

TERPENOID PROFILE

Analysis Date/Time: 04/21/2020 1716 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Analyst: DJ Instrument: Agilent 6890 None

Guthrie, OK 73044

| <u>pene</u> | <u>Result</u> (μg/g) | Result (%) | |
|------------------------|-------------------------|------------|---|
| -Bisabolol | 153 | 0.0153 | |
| Camphene | 171 | 0.0171 | |
| δ-3-Carene | - | - | Eiolo Deup |
| 3-Caryophyllene | 997 | 0.0997 | GL 042006 |
| Caryophyllene oxide | - | - | |
| p-Cymene | - | - | |
| Eucalyptol | - | - | |
| Geraniol | 103 | 0.0103 | |
| Guaiol | 343 | 0.0343 | Abbreviations: HS - Headspace, GC - |
| α-Humulene | 350 | 0.035 | Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit |
| Isopulegol | - | - | This information is provided as a |
| d-Limonene | 4807 | 0.481 | service and makes no claims of efficacy |
| Linalool | 336 | 0.0336 | and/or safety of this product. |
| β-Myrcene | 2554 | 0.255 | Results are applicable only for the sample(s) analyzed and for the specific |
| cis-Nerolidol | - | - | analysis conducted. |
| trans-Nerolidol | - | - | This report is for informational purposes only and should not be used to |
| α-Ocimene | 103 | 0.0103 | diagnose, treat, or prevent any |
| β-Ocimene | 101 | 0.0101 | medical-related symptoms. |
| α-Pinene | 495 | 0.0495 | The statements and results herein have not been approved and/or endorsed by |
| β-Pinene | 643 | 0.0643 | the FDA. |
| α-Terpinene | 56 | 0.00561 | |
| γ-Terpinene | - | - | |
| Terpinolene | 130 | 0.013 | "-" Not detected above RL. |
| TOTAL | 11342 | 1.13 | Reporting Limit (μg/g): |







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: SA25999)

Testing Location: Customer ID: 1648 Order ID: OR8100 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Cultivar (Strain) or Sample Description: Gold Leaf

Date Completed: 04/27/2020

PESTICIDES PROFILE

Analysis Date/Time: 04/21/2020 1716 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

| <u>Pesticide</u> | <u>Result</u> (μg/g) | <u>Action Level</u> (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> | 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 | | |

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.







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: 04/27/2020

SUMMARY OF ANALYSIS (SAMPLE ID: SA25999)

| Testing Location: | Customer ID: 1648 | Order ID: OR8100 | Sample Type: Primary |
|-------------------|-------------------|------------------|----------------------|
| OKC | Red Dirt Sungrown | Lot Number: | Matrix: Flower |

3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Cultivar (Strain) or Sample Description: Gold Leaf

MYCOTOXIN PROFILE

Analysis Date/Time: 04/21/2020 1716 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

| <u>Mycotoxin</u> | <u>Result</u> (μg/kg) | <u>Action Level</u> (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

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.





Page 5 of 7

04/27/2020



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: 04/27/2020

SUMMARY OF ANALYSIS (SAMPLE ID: SA25999)

Testing Location:Customer ID: 1648Order ID: OR8100Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Cultivar (Strain) or Sample Description: Gold Leaf

HEAVY METAL PROFILE

Analysis Date/Time: 04/21/2020 1716 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 None

| Heavy Metal | <u>Result</u> (μg/kg) | <u>Action Level</u> (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

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.





Page 6 of 7

04/27/2020



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: 04/27/2020

SUMMARY OF ANALYSIS (SAMPLE ID: SA25999)

Testing Location:Customer ID: 1648Order ID: OR8100Sample Type: PrimaryOKCRed Dirt SungrownLot Number:Matrix: Flower

3680 E. I-240 Service Rd. P.O. Box 1399 GL042006 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/21/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/21/2020

Cultivar (Strain) or Sample Description: Gold Leaf

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/21/2020 1716 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ Instrument: Thermo Incubator None

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

"-" not detected above reporting limit

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.



