

SUMMARY OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 |
| Cultivar (Strain) or Sample Description: Grape Sorbet | | | Date Completed: 05/19/2020 |

*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.

| | | | |
|-------------------------------------|--------------------------|---|--------------------------|
| Moisture Content (%) 15.8 | PASS/FAIL PASS | Water Activity (aw) 0.44 @ 24.7°C | PASS/FAIL PASS |
|-------------------------------------|--------------------------|---|--------------------------|

| <u>Cannabinoids (Top 3)</u> | <u>(%)</u> | <u>mg/g</u> |
|-----------------------------|------------|-------------|
| THCa | 23.9 | 239 |
| Δ9-THC | 0.948 | 9 |
| CBGa | 0.587 | 6 |
| TOTAL CBD | 0.0903 | 0.903 |
| TOTAL THC | 21.9 | 219 |
| TOTAL CANNABINOIDS | 25.8 | 258 |

| <u>Terpenes (Top 5)</u> | <u>(%)</u> | <u>µg/g</u> |
|-------------------------|------------|-------------|
| d-Limonene | 0.408 | 4079 |
| β-Caryophyllene | 0.312 | 3121 |
| α-Humulene | 0.241 | 2414 |
| Linalool | 0.215 | 2151 |
| Guaiol | 0.141 | 1408 |
| TOTAL TERPENES | 1.78 | 17758 |

| <u>Contaminants</u> | <u>PASS/FAIL</u> |
|---------------------|------------------|
| 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 |
|--|--|--|--|

Cultivar (Strain) or Sample Description: Grape Sorbet **Date Completed:** 05/19/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/15/2020 1508 **Method:** HPLC/DAD **Moisture Content (%):** 15.8
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4374 @ 24.73Å°C

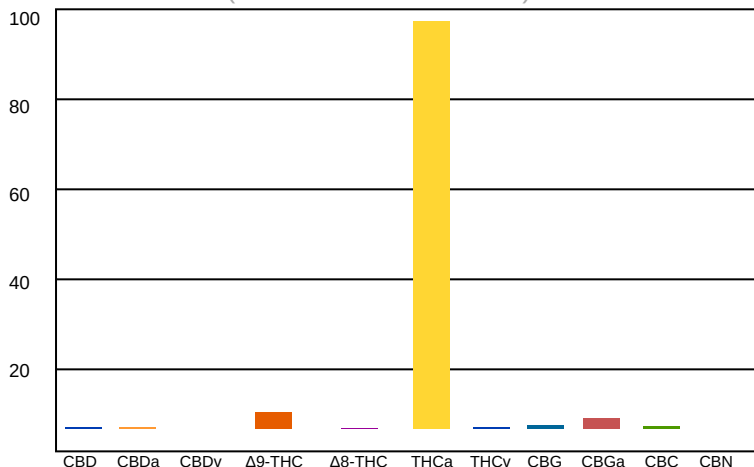
| Cannabinoid | Result (%) | Result (mg/g) | Reporting Limit (mg/g) | Result (mg/mL) | Per Unit (mg) |
|------------------|---------------|---------------|------------------------|----------------|---------------|
| CBD | 0.027 | 0.27 | 0.0518 | - | 0.27 |
| CBDa | 0.0722 | 0.722 | 0.0518 | - | 0.722 |
| CBDv | 0.00939 | 0.0939 | 0.0518 | - | 0.0939 |
| Δ9-THC | 0.948 | 9.48 | 0.0518 | - | 9 |
| Δ8-THC | 0.0143 | 0.143 | 0.0518 | - | 0.143 |
| THCa | 23.9 | 239 | 0.0518 | - | 239 |
| THCv | 0.0374 | 0.374 | 0.0518 | - | 0.374 |
| CBC | 0.0951 | 0.951 | 0.0518 | - | 0.951 |
| CBG | 0.139 | 1.39 | 0.0518 | - | 1.39 |
| CBGa | 0.587 | 5.87 | 0.0518 | - | 6 |
| CBN | - | - | 0.0518 | - | - |
| TOTAL | 25.8 | 258 | | | 258 |
| TOTAL THC | 21.9 | 219 | | | 219 |
| TOTAL CBD | 0.0903 | 0.903 | | | 0.903 |



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

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 |
| Cultivar (Strain) or Sample Description: Grape Sorbet | | | Date Completed: 05/19/2020 |

TERPENOID PROFILE

Analysis Date/Time: 05/15/2020 1508 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**
Analyst: DJ **Instrument:** Agilent 6890 None

| <u>Terpene</u> | <u>Result (µg/g)</u> | <u>Result (%)</u> | |
|---------------------|----------------------|-------------------|---|
| α-Bisabolol | 1151 | 0.115 | ■ |
| Camphene | 235 | 0.0235 | ■ |
| δ-3-Carene | - | - | |
| β-Caryophyllene | 3121 | 0.312 | ■ |
| Caryophyllene oxide | 175 | 0.0175 | ■ |
| p-Cymene | - | - | |
| Eucalyptol | - | - | |
| Geraniol | 243 | 0.0243 | ■ |
| Guaiol | 1408 | 0.141 | ■ |
| α-Humulene | 2414 | 0.241 | ■ |
| Isopulegol | 230 | 0.023 | ■ |
| d-Limonene | 4079 | 0.408 | ■ |
| Linalool | 2151 | 0.215 | ■ |
| β-Myrcene | 395 | 0.0395 | ■ |
| cis-Nerolidol | - | - | |
| trans-Nerolidol | - | - | |
| α-Ocimene | - | - | |
| β-Ocimene | 227 | 0.0227 | ■ |
| α-Pinene | 994 | 0.0994 | ■ |
| β-Pinene | 934 | 0.0934 | ■ |
| α-Terpinene | - | - | |
| γ-Terpinene | - | - | |
| Terpinolene | - | - | |
| TOTAL | 17758 | 1.78 | |



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

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.

"-" Not detected above RL.

Reporting Limit (µg/g): 2.07

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

www.FASTLaboratories.com



SUMMARY OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 |
| Cultivar (Strain) or Sample Description: Grape Sorbet | | | Date Completed: 05/19/2020 |

PESTICIDES PROFILE

Analysis Date/Time: 05/15/2020 1508
Analyst: DJ

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

Deviations from SOP:
None

| <u>Pesticide</u> | <u>Result (µg/g)</u> | <u>Action Level (µg/g)</u> |
|-----------------------------|----------------------|----------------------------|
| Abamectin (71751-41-2) | - | 0.5 |
| Azoxystrobin (131860-33-8) | - | 0.5 |
| Bifenazate* (149877-41-8) | - | 0.5 |
| 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 |

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 | Sythane | Propiconazole | Tilt |
| DDVP | Dichlorvos | Naled | Dibrom | Propoxur | Baygon |
| Ethoprophos | 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

www.FASTLaboratories.com



SUMMARY OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 |
| Cultivar (Strain) or Sample Description: Grape Sorbet | | | Date Completed: 05/19/2020 |

MYCOTOXIN PROFILE

Analysis Date/Time: 05/15/2020 1508
Analyst: DJ

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

Deviations from SOP:
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)
1

"-" 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|---|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 Date Completed: 05/19/2020 |
| Cultivar (Strain) or Sample Description: Grape Sorbet | | | |

HEAVY METAL PROFILE

Analysis Date/Time: 05/15/2020 1508
Analyst: CC

Method: ICP/MS
Instrument: PerkinElmer Elan 9000

Deviations from SOP:
None

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA27111)

| | | | |
|--|--|--|--|
| Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z | Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD | Order ID: OR8452 Lot Number: GS051403 Batch Number: Not Entered | Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020 |
| Cultivar (Strain) or Sample Description: Grape Sorbet | | | Date Completed: 05/19/2020 |

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/15/2020 1508 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: DJ **Instrument:** Thermo Incubator None

| <u>Bacteria/Microbe</u> | <u>Result (CFU/g)</u> | <u>Action Level (CFU/g)</u> |
|----------------------------|-----------------------|-----------------------------|
| Escherichia Coli (E. Coli) | Absent | 1 |
| Mold/Yeast | Absent | 10000 |
| Salmonella spp. | Absent | 1 |
| Staphylococcus Aureus | Absent | 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)
1

"-" 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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

