

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23894)

| | | | |
|--|--------------------------|------------------------------|-----------------------------------|
| Testing Location: | Customer ID: 1648 | Order ID: OR2020-7513 | Sample Type: Primary |
| OKC | Red Dirt Sungrown | Lot Number: | Matrix: Flower |
| 3680 E. I-240 Service Rd. | P.O. Box 1399 | MW030702 | Mass: 5g |
| Oklahoma City, OK 73135 | Guthrie, OK 73044 | Batch Number: | Date Collected: 03/10/2020 |
| License: LAAA-4Y4X-Z72Z | License: GAAA-41RN-M7KD | Not Entered | Date Received: 03/10/2020 |
| Cultivar (Strain) or Sample Description: Maui Wowie | | | Date Completed: 03/13/2020 |

*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.

| | | | |
|-----------------------------|------------------|----------------------------|------------------|
| Moisture Content (%) | PASS/FAIL | Water Activity (aw) | PASS/FAIL |
| 12.6 | PASS | 0.40 @ 23.1°C | PASS |

| <u>Cannabinoids (Top 3)</u> | <u>(%)</u> | <u>mg/g</u> |
|-----------------------------|------------|-------------|
| THCa | 24.3 | 243 |
| CBGa | 1.41 | 14 |
| Δ9-THC | 0.341 | 3 |
| TOTAL CBD | 0.0854 | 0.854 |
| TOTAL THC | 21.6 | 216 |
| TOTAL CANNABINOIDS | 26.5 | 265 |

| <u>Terpenes (Top 5)</u> | <u>(%)</u> | <u>µg/g</u> |
|-------------------------|------------|-------------|
| β-Myrcene | 0.373 | 3726 |
| β-Caryophyllene | 0.165 | 1655 |
| Terpinolene | 0.141 | 1406 |
| d-Limonene | 0.108 | 1076 |
| α-Humulene | 0.101 | 1011 |
| TOTAL TERPENES | 1.06 | 10562 |

| <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: SA2020-23894)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 03/11/2020 1100

Method: HPLC/DAD

Moisture Content (%): 12.59

Analyst: WW

Instrument: Agilent 1100

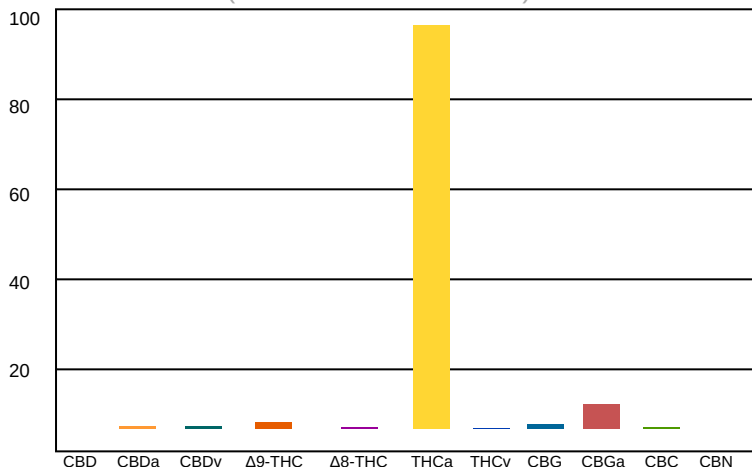
Water Activity (aw): 0.4 @ 23.06°C

| Cannabinoid | Result (%) | Result (mg/g) | Reporting Limit (mg/g) | Result (mg/mL) | Per Unit (mg) |
|--------------------|-------------------|----------------------|-------------------------------|-----------------------|----------------------|
| CBD | 0.0114 | 0.114 | 0.0516 | - | 0.114 |
| CBDa | 0.0845 | 0.845 | 0.0516 | - | 0.845 |
| CBDv | 0.095 | 0.95 | 0.0516 | - | 0.95 |
| Δ9-THC | 0.341 | 3.41 | 0.0516 | - | 3 |
| Δ8-THC | 0.0278 | 0.278 | 0.0516 | - | 0.278 |
| THCa | 24.3 | 243 | 0.0516 | - | 243 |
| THCv | 0.0173 | 0.173 | 0.0516 | - | 0.173 |
| CBC | 0.0278 | 0.278 | 0.0516 | - | 0.278 |
| CBG | 0.231 | 2.31 | 0.0516 | - | 2 |
| CBGa | 1.41 | 14.1 | 0.0516 | - | 14 |
| CBN | - | - | 0.0516 | - | - |
| TOTAL | 26.5 | 265 | - | - | 265 |
| TOTAL THC | 21.6 | 216 | - | - | 216 |
| TOTAL CBD | 0.0854 | 0.854 | - | - | 0.854 |



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: 03/11/2020 1100

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

Deviations from SOP:

Analyst: DJ

Instrument: Agilent 6890

None

| <u>Terpene</u> | <u>Result</u> (µg/g) | <u>Result</u> (%) | |
|---------------------|-------------------------|----------------------|---|
| α-Bisabolol | 280 | 0.028 | ■ |
| Camphene | 28 | 0.00281 | ■ |
| δ-3-Carene | 40 | 0.00402 | ■ |
| β-Caryophyllene | 1655 | 0.165 | ■ |
| Caryophyllene oxide | 78 | 0.00776 | ■ |
| p-Cymene | - | - | |
| Eucalyptol | - | - | |
| Geraniol | - | - | |
| Guaiol | 325 | 0.0325 | ■ |
| α-Humulene | 1011 | 0.101 | ■ |
| Isopulegol | - | - | |
| d-Limonene | 1076 | 0.108 | ■ |
| Linalool | 46 | 0.0046 | ■ |
| β-Myrcene | 3726 | 0.373 | ■ |
| cis-Nerolidol | - | - | |
| trans-Nerolidol | - | - | |
| α-Ocimene | - | - | |
| β-Ocimene | 305 | 0.0305 | ■ |
| α-Pinene | 152 | 0.0152 | ■ |
| β-Pinene | 390 | 0.039 | ■ |
| α-Terpinene | 44 | 0.00435 | ■ |
| γ-Terpinene | - | - | |
| Terpinolene | 1406 | 0.141 | ■ |
| TOTAL | 10562 | 1.06 | |



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 2.06

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PESTICIDES PROFILE

Analysis Date/Time: 03/11/2020 1100

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 |
| 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 | Systhane | Propiconazole | Tilt |
| DDVP | Dichlorvos | Naled | Dibrom | Propoxur | Baygon |
| Ethoprophos | Prophos | Phosmet | Imidan | | |

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MYCOTOXIN PROFILE**Analysis Date/Time:** 03/11/2020 1100**Method:** LC/MS/MS**Deviations from SOP:****Analyst:** DJ**Instrument:** Waters Acquity/TQD

None

| Mycotoxin | Result (µg/kg) | Action Level (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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| License: LAAA-4Y4X-Z72Z | License: GAAA-41RN-M7KD | Not Entered | Date Received: 03/10/2020 |
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HEAVY METAL PROFILE**Analysis Date/Time:** 03/11/2020 1100**Method:** ICP/MS**Deviations from SOP:****Analyst:** CC**Instrument:** PerkinElmer Elan 9000

None

| Heavy Metal | Result (µg/kg) | Action Level (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: 03/11/2020 1100 | Method: Hardy Diagnostics CompactDry | Deviations from SOP: |
| Analyst: KB | Instrument: Thermo Incubator | 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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