

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: SA2020-22918)

Testing Location: Customer ID: 1648 Order ID: OR2020-7229 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 MW021403 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 02/20/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 02/20/2020

Cultivar (Strain) or Sample Description: Maui Wowie

Date Completed: 02/25/2020

^{*}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
10.9	PASS	0.26 @ 21.8°C	PASS
<u>Cannabinoids (</u>	<u>Гор 3)</u>	<u>(%)</u>	mg/g
THCa		20.8	208
CBGa		0.688	7
Δ9-ΤΗС		0.285	3
TOTAL CB	D	0.0531	0.531
TOTAL TH	TOTAL THC		185
TOTAL CANNAB	TOTAL CANNABINOIDS		219
Terpenes (To	<u>o 5)</u>	<u>(%)</u>	μg/g
β-Myrcene	β-Myrcene		3295
d-Limonen	d-Limonene		2951
Terpinolen	Terpinolene		1747
β-Caryophylle	β-Caryophyllene		1734
β-Pinene	β-Pinene		1043
TOTAL TERPE	TOTAL TERPENES		12464
Contaminants	PASS/FAIL	Sample Picture Up	on Receipt

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.



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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/21/2020 1120 Method: HPLC/DAD Moisture Content (%): 10.9

Analyst: JI Instrument: Agilent 1100 Water Activity (aw): 0.2601 @ 21.83°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	<u>(70)</u>	(IIIg/g) -	0.0504	(mg/mL)	<u>(111g)</u> -
CBDa	0.0606	0.606	0.0504		0.606
	0.0000	0.606		-	0.000
CBDv	-	-	0.0504	-	-
Δ9-ΤΗС	0.285	2.85	0.0504	-	3
Δ8-ΤΗС	-	-	0.0504	-	-
THCa	20.8	208	0.0504	-	208
THCv	-	-	0.0504	-	-
CBC	-	-	0.0504	-	-
CBG	0.108	1.08	0.0504	-	1.08
CBGa	0.688	6.88	0.0504	-	7
CBN	-	-	0.0504	-	-
TOTAL	21.9	219		-	219
TOTAL THC	18.5	185		_	185
TOTAL CBD	0.0531	0.531		_	0.531

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv A9-THC A8-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





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TERPENOID PROFILE

Analysis Date/Time: 02/21/2020 1120 Method: HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Analyst: JS **Instrument:** Agilent 6890 None

<u>Terpene</u>	Result (µg/g)	Result (%)
α-Bisabolol	212	0.0212
Camphene	88	0.00883
δ-3-Carene	103	0.0103
β-Caryophyllene	1734	0.173
Caryophyllene oxide	126	0.0126
p-Cymene	-	-
Eucalyptol	35	0.00347
Geraniol	33	0.00331
Guaiol	368	0.0368
α-Humulene	-	-
Isopulegol	-	-
d-Limonene	2951	0.295
Linalool	38	0.00383
β-Myrcene	3295	0.33
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	597	0.0597
β-Pinene	1043	0.104
α-Terpinene	58	0.00581
γ-Terpinene	35	0.00355
Terpinolene	1747	0.175
TOTAL	12464	1.25







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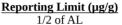
PESTICIDES PROFILE

Analysis Date/Time: 02/21/2020 1120 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

<u>Pesticide</u>	Result (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





"-" 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)	<u>Pesticide</u>	Synonym(s)
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: 02/21/2020 1120 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





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HEAVY METAL PROFILE

Analysis Date/Time: 02/21/2020 1120 **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





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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 02/21/2020 1120 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: KB Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	90	-
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

