

**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: SA25426)

Testing Location:	Customer ID: 1648	Order ID: OR7942	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	MAC040703	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 04/09/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 04/09/2020
Cultivar (Strain) or Sample I	Date Completed: 04/13/2020		

\*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
10.5	PASS	0.41 @ 22.1°C	PASS
Cannabinoids	(Top 3)	<u>(%)</u>	mg/g
THCa		17.7	177
<b>Δ9-TH</b> C	2	1.91	19
CBGa		0.841	8
TOTAL C	BD	0.0491	0.491
TOTAL T	HC	17.5 175	
TOTAL CANNA	BINOIDS	20.8	208
<u>Terpenes (T</u>	op 5)	<u>(%)</u>	μg/g
Terpinole	ne	0.264	2638
α-Bisabol	lol	0.084	836
α-Humule	ene	0.082	824
d-Limone	d-Limonene 0.0		681
β-Myrcer	ne	0.066	658
TOTAL TERF	PENES	0.821	8205
Contaminants	PASS/FAIL	Sample Picture Up	on Receipt
Heavy Metals:	PASS		

Contaminants	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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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25426)**

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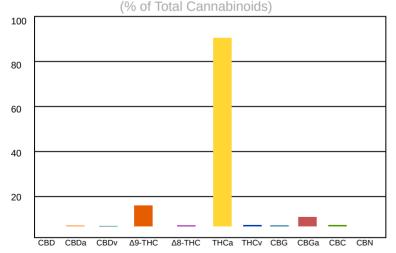
### **CANNABINOID (POTENCY) PROFILE**

Analysis Date/Time: 04/09/2020 1206 Analyst: WW

Method: HPLC/DAD Instrument: Agilent 1100 Moisture Content (%): 10.5 Water Activity (aw): 0.4086 @ 22.07°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>Reporting Limit</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per Unit</u> (mg)	,
CBD	-	-	0.0501	-	-	1
CBDa	0.0559	0.559	0.0501	-	0.559	
CBDv	0.0147	0.147	0.0501	-	0.147	MART
Δ9-ΤΗC	1.91	19.1	0.0501	-	19	A P C
Δ8-ΤΗϹ	0.0172	0.172	0.0501	-	0.172	ů.
THCa	17.7	177	0.0501	-	177	
THCv	0.0693	0.693	0.0501	-	0.693	
CBC	0.0686	0.686	0.0501	-	0.686	
CBG	0.0603	0.603	0.0501	-	0.603	
CBGa	0.841	8.41	0.0501	-	8	
CBN	0.0101	0.101	0.0501	-	0.101	
TOTAL	20.8	208		-	208	UNIT MASS (g
TOTAL THC	17.5	175		-	175	"-" Not detected above
TOTAL CBD	0.0491	0.491		-	0.491	

# **Cannabinoid Distribution**



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**g):** 1 e RL.

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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Cultivar (Strain) or Sample 1	Date Completed: 04/13/2020		

## **TERPENOID PROFILE**

Analysis Date/Time: 04 Analyst: DJ	/09/2020 1206	<b>Method:</b> HS/GC/FID (Internal Method- <b>Instrument:</b> Agilent 6890		Deviations from SOP: None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	836	0.0836		
Camphene	-	-		
δ-3-Carene	130	0.013		REAL REAL
β-Caryophyllene	-	-		2010
Caryophyllene oxide	121	0.0121	1	
p-Cymene	26	0.00259		
Eucalyptol	-	-		
Geraniol	65	0.00645		
Guaiol	-	-		Abbreviations: HS - Headspace, GC -
α-Humulene	824	0.0824		Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Isopulegol	-	-		This information is provided as a
d-Limonene	681	0.0681		service and makes no claims of efficacy
Linalool	526	0.0526		and/or safety of this product. Results are applicable only for the
β-Myrcene	658	0.0658		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	-	-	_	diagnose, treat, or prevent any medical-related symptoms.
β-Ocimene	501	0.0501		The statements and results herein have
α-Pinene	340	0.034		not been approved and/or endorsed by
β-Pinene	614	0.0614		the FDA.
α-Terpinene	161	0.0161		
γ-Terpinene	85	0.00846		
Terpinolene	2638	0.264		"-" Not detected above RL.
TOTAL	8205	0.821		<b>Reporting Limit (µg/g):</b> 2







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License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 04/09/2020
Cultivar (Strain) or Sample	Date Completed: 04/13/2020		

## Analysis Date/Time: 04/09/2020 1206 Analyst: DJ

## **PESTICIDES PROFILE**

Method: LC/MS/MS Instrument: Waters Acquity/TQD **Deviations from SOP:** 

None

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>Action Level</u> <u>(µg/g)</u>	<u>Color Key</u>
Abamectin (71751-41-2)	-	0.5	RESULT < 1/2 AL
Azoxystrobin (131860-33-8)	-	0.5	1/2 AL < RESULT < AL
Bifenazate* (149877-41-8)	-	0.5	<b>RESULT &gt; AL</b>
Etoxazole (153233-91-1)	-	0.5	Reporting Limit (µg/g)
Imazalil (35554-44-0)	-	0.5	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

Pesticide	<u>Synonym(s)</u>	Pesticide	Synonym(s)	Pesticide	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 04/09/2020 Date Received: 04/09/2020 Date Completed: 04/13/2020

Cultivar (Strain) or Sample Description: MAC

## **MYCOTOXIN PROFILE**

**Analysis Date/Time:** 04/09/2020 1206 **Analyst:** DJ Method: LC/MS/MS Instrument: Waters Acquity/TQD

### **Deviations from SOP:** None

MycotoxinResult<br/>(µg/kg)Action Level<br/>(µg/kg)Aflatoxin B1-20Aflatoxin B2-20Aflatoxin G1-20Aflatoxin G2-20Ochratoxin A-20



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

#### Color Key



Reporting Limit (CFU/g) 1

"-" not detected above reporting limit

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Kyle W. Felling, Ph.D. ry Di

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**Testing Location:** Order ID: OR7942 Customer ID: 1648 Sample Type: Primary OKC Matrix: Flower Red Dirt Sungrown Lot Number: 3680 E. I-240 Service Rd. P.O. Box 1399 MAC040703 Mass: 5g Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number:** Date Collected: 04/09/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered Date Received: 04/09/2020 Date Completed: 04/13/2020

Cultivar (Strain) or Sample Description: MAC

Analysis Date/Time: 04/09/2020 1206

## HEAVY METAL PROFILE

Method: ICP/MS Instrument: PerkinElmer Elan 9000

#### **Deviations from SOP:** None

**Heavy Metal** Arsenic (As)

Analyst: CC

Cadmium (Cd) Lead (Pb) Mercury (Hg)

<u>Result</u> (µg/kg)	<u>Action Level</u> <u>(μg/kg)</u>
-	400
-	440
-	1000
-	200



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

#### Color Key



Reporting Limit (µg/kg) 50

"-" not detected above reporting limit

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## MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/09/2020 1206 Analyst: KB

Method: Hardy Diagnostics CompactDry **Instrument:** Thermo Incubator

**Deviations from SOP:** None

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



**Reporting Limit (CFU/g)** 1

"-" not detected above reporting limit

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