

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: SA28002)

Testing Location: Customer ID: 1648 Order ID: OR8711 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 Not Entered **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number:** Date Collected: 06/02/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered Date Received: 06/01/2020

Cultivar (Strain) or Sample Description: GG4

Date Completed: 06/08/2020

^{*}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
13.5	PASS	0.45 @ 27.7°C	PASS
Cannabinoids (To	op 3)	<u>(%)</u>	mg/g
ТНСа		23.7	237
CBGa		0.728	7
Δ9-ΤΗС		0.588	6
TOTAL CBD	TOTAL CBD		0.757
TOTAL THO	TOTAL THC		214
TOTAL CANNABI	TOTAL CANNABINOIDS		253
Terpenes (Top	<u>5)</u>	<u>(%)</u>	μg/g
β-Myrcene	β-Myrcene		9949
d-Limonene	d-Limonene		5922
β-Caryophyllene		0.432	4316
Terpinolene	Terpinolene		3777
β-Ocimene	β-Ocimene		1942
TOTAL TERPENES		3.1	30962

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
isual 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.





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^{*}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: 06/02/2020 1159 Method: HPLC/DAD Moisture Content (%): 13.5

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4549 @ 27.68°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0508	-	-
CBDa	0.0864	0.864	0.0508	-	0.864
CBDv	0.0131	0.131	0.0508	-	0.131
Δ9-ΤΗС	0.588	5.88	0.0508	-	6
Δ8-ΤΗС	0.0425	0.425	0.0508	-	0.425
THCa	23.7	237	0.0508	-	237
THCv	-	-	0.0508	-	-
CBC	0.035	0.35	0.0508	-	0.35
CBG	0.0973	0.973	0.0508	-	0.973
CBGa	0.728	7.28	0.0508	-	7
CBN	0.0059	0.059	0.0508	-	0.059
TOTAL	25.3	253		-	253
TOTAL THC	21.4	214		-	214
TOTAL CBD	0.0757	0.757		-	0.757

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\) \(Delta\) THC \(Delta\) 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: 06/02/2020 1159 Method: HS/GC/FID (Internal Method-002) Deviations from SOP:

Analyst: DJ Instrument: Agilent 6890 None

<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)	
α-Bisabolol	665	0.0665	
Camphene	175	0.0175	
δ-3-Carene	150	0.015	
β-Caryophyllene	4316	0.432	
Caryophyllene oxide	226	0.0226	€ 6 € 2 ₹ 2 ₹ 0 ¥
p-Cymene	52	0.0052	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	Abbreviations: HS - Headspace, GC -
α-Humulene	-	-	Gas Chromatography, MS - Mass
Isopulegol	111	0.0111	Spectrometry, RL - Reporting Limit This information is provided as a
d-Limonene	5922	0.592	service and makes no claims of efficacy
Linalool	694	0.0694	and/or safety of this product.
β-Myrcene	9949	0.995	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	222	0.0222	diagnose, treat, or prevent any
β-Ocimene	1942	0.194	medical-related symptoms.
α-Pinene	803	0.0803	The statements and results herein have not been approved and/or endorsed by
β-Pinene	1685	0.168	the FDA.
α-Terpinene	154	0.0154	
γ-Terpinene	120	0.012	
Terpinolene	3777	0.378	"-" Not detected above RL.
TOTAL			







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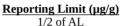
PESTICIDES PROFILE

Analysis Date/Time: 06/02/2020 1159 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



"-" 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: 06/02/2020 1159 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: 06/02/2020 1159 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 Non

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: 06/02/2020 1159 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ Instrument: Thermo Incubator Non

Bacteria/Microbe Result **Action Level** (CFU/g) (CFU/g) Escherichia Coli (E. Coli) **Absent** 1 Mold/Yeast Absent 10000 Salmonella spp. Absent 1 Staphylococcus Aureus 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)

"-" not detected above reporting limit



