

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: SA2020-24477)

Testing Location: Customer ID: 1648 Order ID: OR2020-7671 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 CG031702 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 03/20/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 03/20/2020

Cultivar (Strain) or Sample Description: Citral Glue

Date Completed: 03/25/2020

^{*}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
12.5	PASS	0.41 @ 23.3°C	PASS
Cannabinoids (<u>Гор 3)</u>	<u>(%)</u>	mg/g
THCa		29.2	292
CBGa		0.605	6
Δ9-ΤΗС		0.379	4
TOTAL CBI	D	0.0917	0.917
TOTAL TH	G	26	260
TOTAL CANNAB	TOTAL CANNABINOIDS		304
<u>Terpenes (Top</u>	o 5)	(%)	μg/g
β-Caryophylle	ene	0.215	2151
d-Limonene	d-Limonene		2151
β-Myrcene	β-Myrcene		1388
α-Humulen	α-Humulene		1039
Linalool		0.054	543
TOTAL TERPE	NES	0.82	8202
Contaminants	PASS/FAIL	Sample Picture Une	n Receint

ContaminantsPASS/FAILHeavy Metals:PASSMicrobiology:PASSMycotoxins:PASSPesticides:PASSVisual 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: 03/23/2020 1432 Method: HPLC/DAD Moisture Content (%): 12.5

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4122 @ 23.31°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.00624	0.0624	0.0506	-	0.0624
CBDa	0.0974	0.974	0.0506	-	0.974
CBDv	0.00912	0.0912	0.0506	-	0.0912
Δ9-ΤΗС	0.379	3.79	0.0506	-	4
Δ8-ΤΗС	0.034	0.34	0.0506	-	0.34
THCa	29.2	292	0.0506	-	292
THCv	-	-	0.0506	-	-
CBC	0.0362	0.362	0.0506	-	0.362
CBG	0.0817	0.817	0.0506	-	0.817
CBGa	0.605	6.05	0.0506	-	6
CBN	-	-	0.0506	-	-
TOTAL	30.4	304		-	304
TOTAL THC	26	260		-	260
TOTAL CBD	0.0917	0.917		_	0.917

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\)-THC \(Delta\)-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: 03/23/2020 1432 Method: HS/GC/FID (Internal Method-002) Deviations from SOP:

Analyst: DJ **Instrument:** Agilent 6890 None

<u>ene</u>	Result (µg/g)	Result (%)	
-Bisabolol	193	0.0193	
Camphene	55	0.00549	6.5
δ-3-Carene	-	-	9.3
β-Caryophyllene	2151	0.215	3
Caryophyllene oxide	101	0.0101	2 25
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	31	0.00312	
Guaiol	-	-	Abbreviations: HS - Headspace, GC -
α-Humulene	1039	0.104	Gas Chromatography, MS - Mass
Isopulegol	-	-	Spectrometry, RL - Reporting Limit This information is provided as a
d-Limonene	2151	0.215	service and makes no claims of efficacy
Linalool	543	0.0543	and/or safety of this product.
β-Myrcene	1388	0.139	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	-	-	diagnose, treat, or prevent any
β-Ocimene	-	-	medical-related symptoms.
α-Pinene	171	0.0171	The statements and results herein have not been approved and/or endorsed by
β-Pinene	379	0.0379	the FDA.
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	"-" Not detected above RL.
TOTAL	8202	0.82	Reporting Limit (µg







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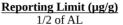
PESTICIDES PROFILE

Analysis Date/Time: 03/23/2020 1432 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)	Pesticide	Synonym(s)	Pesticide	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: 03/23/2020 1432 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

Mycotoxin	<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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Date Completed: 03/25/2020

HEAVY METAL PROFILE

Analysis Date/Time: 03/23/2020 1432 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 None

<u>Heavy Metal</u>	<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: 03/23/2020 1432 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: KB Instrument: Thermo Incubator None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	50	-
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



