

**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: SA28001)**

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

**OKC** Matrix: Flower Red Dirt Sungrown Lot Number: 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: Citral Glue **Date Completed:** 06/08/2020

<sup>\*</sup>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
14.8	PASS	0.43 @ 27.7°C	PASS
<u>Cannabinoids (T</u>	<u>Гор 3)</u>	<u>(%)</u>	mg/g
THCa		26.3	263
Δ9-ΤΗС		0.633	6
CBGa		0.521	5
TOTAL CBI	)	0.0775	0.775
TOTAL THO	TOTAL THC		237
TOTAL CANNAB	TOTAL CANNABINOIDS		277
Terpenes (Top	Terpenes (Top 5)		μg/g
β-Caryophylle	β-Caryophyllene		7607
β-Myrcene	β-Myrcene		7201
d-Limonene	d-Limonene		5427
α-Humulene		0.331	3309
Linalool	Linalool		1652
TOTAL TERPENES		2.84	28369

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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<sup>\*</sup>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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## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28001)**

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## **CANNABINOID (POTENCY) PROFILE**

Analysis Date/Time: 06/02/2020 1159 Method: HPLC/DAD Moisture Content (%): 14.8

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4329 @ 27.73°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0508	-	-
CBDa	0.0884	0.884	0.0508	-	0.884
CBDv	0.0142	0.142	0.0508	-	0.142
Δ9-ΤΗС	0.633	6.33	0.0508	-	6
Δ8-ΤΗС	0.0361	0.361	0.0508	-	0.361
THCa	26.3	263	0.0508	-	263
THCv	-	-	0.0508	-	-
CBC	0.0436	0.436	0.0508	-	0.436
CBG	0.0623	0.623	0.0508	-	0.623
CBGa	0.521	5.21	0.0508	-	5
CBN	-	-	0.0508	-	-
TOTAL	27.7	277		-	277
TOTAL THC	23.7	237		-	237
TOTAL CBD	0.0775	0.775		-	0.775

# **Cannabinoid Distribution**

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\) 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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Date Completed: 06/08/2020

## 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	839	0.0839
Camphene	161	0.0161
δ-3-Carene	18	0.00183
β-Caryophyllene	7607	0.761
Caryophyllene oxide	174	0.0174
p-Cymene	37	0.00372
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	3309	0.331
Isopulegol	81	0.00808
d-Limonene	5427	0.543
Linalool	1652	0.165
β-Myrcene	7201	0.72
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	44	0.00439
α-Pinene	509	0.0509
β-Pinene	1164	0.116
α-Terpinene	35	0.00349
γ-Terpinene	-	-
Terpinolene	112	0.0112
TOTAL	28369	2.84







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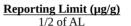
### **PESTICIDES PROFILE**

Analysis Date/Time: 06/02/2020 1159 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

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	<u>Pesticide</u>	<u>Result</u> (μg/g)	Action Level (μg/g)
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	Abamectin (71751-41-2)	-	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	Azoxystrobin (131860-33-8)	-	0.5
Imazalil (35554-44-0)	Bifenazate* (149877-41-8)	-	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	Etoxazole (153233-91-1)	-	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	Imazalil (35554-44-0)	-	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	Imidacloprid (138261-41-3)	-	0.5
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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	Myclobutanil (88671-89-0)	-	0.5
Spinosad D (168316-95-8)       0.5         Spiromesifen (283594-90-1)       0.5         Spirotetramat (203313-25-1)       0.5	Permethrins* (52645-53-1)	-	0.5
Spiromesifen (283594-90-1)       0.5         Spirotetramat (203313-25-1)       0.5	Spinosad A (168316-95-8)	-	0.5
Spirotetramat (203313-25-1) - 0.5	Spinosad D (168316-95-8)	-	0.5
	Spiromesifen (283594-90-1)	-	0.5
Tebuconazole (80443-41-0) 0.5	Spirotetramat (203313-25-1)	-	0.5
	Tebuconazole (80443-41-0)	-	0.5

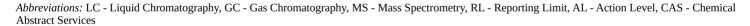
# Color Key RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL



"-" 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.



<u>Pesticide</u>	Synonym(s)	<b>Pesticide</b>	Synonym(s)	<b>Pesticide</b>	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



