

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: SA27109)

Testing Location: Customer ID: 1648 Order ID: OR8452 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 CR051417 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number:** Date Collected: 05/15/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered Date Received: 05/15/2020

Cultivar (Strain) or Sample Description: Crescendo

Date Completed: 05/19/2020

^{*}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
13.6	PASS	0.48 @ 24.3°C	PASS
<u>Cannabinoids (T</u>	<u>Cop 3)</u>	<u>(%)</u>	mg/g
THCa		27.2	272
Δ9-ΤΗС		1.62	16
CBGa		0.766	8
TOTAL CBI)	0.0683	0.683
TOTAL THO	_	25.5	255
TOTAL CANNABI	TOTAL CANNABINOIDS		300
Terpenes (Top	5)	<u>(%)</u>	μg/g
β-Myrcene		0.599	5993
β-Caryophylle	β-Caryophyllene		2880
α-Humulene		0.168	1677
Linalool		0.079	790
β-Ocimene		0.052	518
TOTAL TERPENES		1.33	13302

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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^{*}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: 05/15/2020 1501 Method: HPLC/DAD Moisture Content (%): 13.6

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4845 @ 24.33°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0504	-	-
CBDa	0.0778	0.778	0.0504	-	0.778
CBDv	0.00643	0.0643	0.0504	-	0.0643
Δ9-ΤΗС	1.62	16.2	0.0504	-	16
Δ8-ΤΗС	0.0458	0.458	0.0504	-	0.458
THCa	27.2	272	0.0504	-	272
THCv	0.00981	0.0981	0.0504	-	0.0981
CBC	0.0908	0.908	0.0504	-	0.908
CBG	0.188	1.88	0.0504	-	1.88
CBGa	0.766	7.66	0.0504	-	8
CBN	0.00711	0.0711	0.0504	-	0.0711
TOTAL	30	300		-	300
TOTAL THC	25.5	255		-	255
TOTAL CBD	0.0683	0.683		_	0.683

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: 05/15/2020 1501 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Analyst: DJ Instrument: Agilent 6890 None

<u>ne</u>	Result (µg/g)	Result (%)	
Bisabolol	368	0.0368	
Camphene	-	-	
5-3-Carene	_	_	Croscando
3-Caryophyllene	2880	0.288	= 0103001(00
Caryophyllene Oxide	319	0.0319	CROSI4!?
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	118	0.0118	
Guaiol	-	-	Abbreviations: HS - Headspace, GC -
α-Humulene	1677	0.168	Gas Chromatography, MS - Mass
sopulegol	-	-	Spectrometry, RL - Reporting Limit
d-Limonene	487	0.0487	This information is provided as a service and makes no claims of efficacy
Linalool	790	0.079	and/or safety of this product.
β-Myrcene	5993	0.599	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 medical-related symptoms.
β-Ocimene	518	0.0518	The statements and results herein have
α-Pinene	154	0.0154	not been approved and/or endorsed by
β-Pinene	-	-	the FDA.
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	"-" Not detected above RL.
TOTAL	13302	1.33	Reporting Limit (μ







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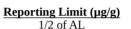
PESTICIDES PROFILE

Analysis Date/Time: 05/15/2020 1501 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





"-" 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: 05/15/2020 1501 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

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: 05/15/2020 1501 **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: 05/15/2020 1501 Method: Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ **Instrument:** Thermo Incubator

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

1/2 AL < RESULT < AL RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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