

SUMMARY OF ANALYSIS (SAMPLE ID: SA28006)

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: Spec Ops			Date Completed: 06/08/2020

*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
12.8	PASS	0.42 @ 28.1°C	PASS

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	30	300
Δ9-THC	0.802	8
CBGa	0.794	8
TOTAL CBD	0.105	1.05
TOTAL THC	27.1	271
TOTAL CANNABINOIDS	32.3	323

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.804	8039
d-Limonene	0.644	6439
β-Myrcene	0.513	5127
α-Humulene	0.380	3799
α-Bisabolol	0.377	3772
TOTAL TERPENES	3.41	34056

<u>Contaminants</u>	<u>PASS/FAIL</u>
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Visual Inspection:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28006)

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CANNABINOID (POTENCY) PROFILE

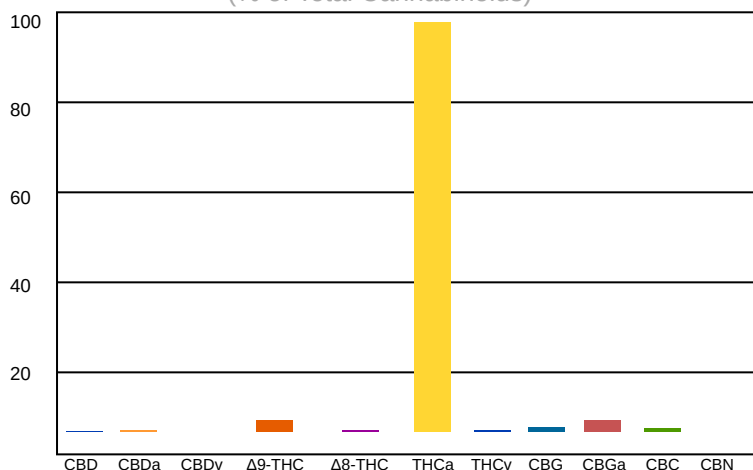
Analysis Date/Time: 06/02/2020 1159 **Method:** HPLC/DAD **Moisture Content (%):** 12.8
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4169 @ 28.12Â°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.0243	0.243	0.0516	-	0.243
CBDa	0.0923	0.923	0.0516	-	0.923
CBDv	0.00992	0.0992	0.0516	-	0.0992
Δ9-THC	0.802	8.02	0.0516	-	8
Δ8-THC	0.043	0.43	0.0516	-	0.43
THCa	30	300	0.0516	-	300
THCv	0.0381	0.381	0.0516	-	0.381
CBC	0.209	2.09	0.0516	-	2
CBG	0.257	2.57	0.0516	-	3
CBGa	0.794	7.94	0.0516	-	8
CBN	-	-	0.0516	-	-
TOTAL	32.3	323	-	-	323
TOTAL THC	27.1	271	-	-	271
TOTAL CBD	0.105	1.05	-	-	1.05



Cannabinoid Distribution

(% of Total Cannabinoids)



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) + Δ9-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> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	3772	0.377	■
Camphene	186	0.0186	■
δ-3-Carene	29	0.00287	■
β-Caryophyllene	8039	0.804	■
Caryophyllene oxide	-	-	
p-Cymene	43	0.00425	■
Eucalyptol	-	-	
Geraniol	128	0.0128	■
Guaiol	3017	0.302	■
α-Humulene	3799	0.38	■
Isopulegol	70	0.007	■
d-Limonene	6439	0.644	■
Linalool	202	0.0202	■
β-Myrcene	5127	0.513	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	199	0.0199	■
α-Pinene	618	0.0618	■
β-Pinene	1384	0.138	■
α-Terpinene	47	0.0047	■
γ-Terpinene	-	-	
Terpinolene	959	0.0959	■
TOTAL	34056	3.41	



Abbreviations: HS - Headspace, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

Reporting Limit (µg/g): 2.06

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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)	<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	RESULT > AL
Etoazazole (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	

Reporting Limit (µg/g)
1/2 of 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>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>
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

Mycotoxin	Result (µg/kg)	Action Level (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)

1

"- " 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

None

Heavy Metal	Result (µg/kg)	Action Level (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
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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

None

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

1

"- " not detected above
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