

SUMMARY OF ANALYSIS (SAMPLE ID: SA27613)

Testing Location:	Customer ID: 1648	Order ID: OR8591	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	FZ052201	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 05/26/2020
Cultivar (Strain) or Sample Description: Forbidden Zkittles			Date Completed: 05/28/2020

*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 @ 22.0°C	PASS

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	18.4	184
Δ9-THC	0.327	3
CBGa	0.231	2
TOTAL CBD	0.054	0.54
TOTAL THC	16.4	164
TOTAL CANNABINOIDS	19.1	191

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>μg/g</u>
β-Caryophyllene	0.452	4516
d-Limonene	0.425	4250
α-Humulene	0.183	1835
Linalool	0.092	917
β-Pinene	0.085	851
TOTAL TERPENES	1.51	15093

<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: SA27613)

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CANNABINOID (POTENCY) PROFILE

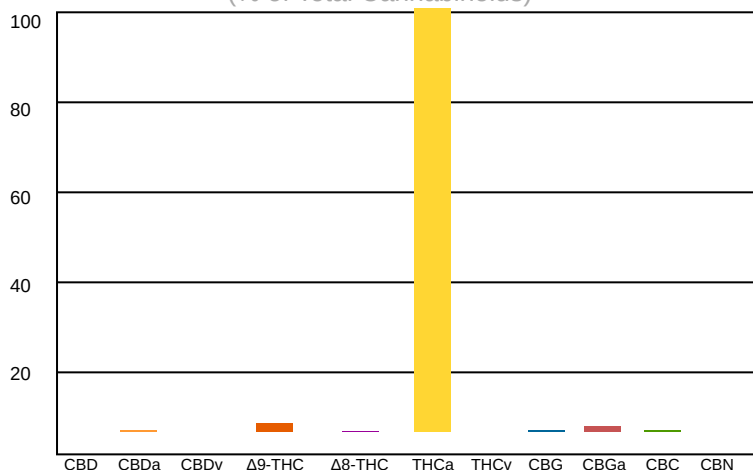
Analysis Date/Time: 05/27/2020 0849 **Method:** HPLC/DAD **Moisture Content (%):** 12.8
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4181 @ 21.99Â°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.00618	0.0618	0.052	-	0.0618
CBDa	0.0545	0.545	0.052	-	0.545
CBDv	0.00836	0.0836	0.052	-	0.0836
Δ9-THC	0.327	3.27	0.052	-	3
Δ8-THC	0.0129	0.129	0.052	-	0.129
THCa	18.4	184	0.052	-	184
THCv	-	-	0.052	-	-
CBC	0.0416	0.416	0.052	-	0.416
CBG	0.0465	0.465	0.052	-	0.465
CBGa	0.231	2.31	0.052	-	2
CBN	-	-	0.052	-	-
TOTAL	19.1	191	-	-	191
TOTAL THC	16.4	164	-	-	164
TOTAL CBD	0.054	0.54	-	-	0.54



Cannabinoid Distribution

(% of Total Cannabinoids)



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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) + 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: 05/27/2020 0849

Method: HS/GC/FID (Internal Method-002)

Deviations from SOP:

Analyst: DJ

Instrument: Agilent 6890

None

<u>Terpene</u>	<u>Result</u> ($\mu\text{g/g}$)	<u>Result</u> (%)	
α -Bisabolol	-	-	
Camphene	134	0.0134	
δ -3-Carene	-	-	
β -Caryophyllene	4516	0.452	
Caryophyllene oxide	66	0.00662	
p-Cymene	-	-	
Eucalyptol	36	0.00362	
Geraniol	106	0.0106	
Guaiol	-	-	
α -Humulene	1835	0.183	
Isopulegol	-	-	
d-Limonene	4250	0.425	
Linalool	917	0.0917	
β -Myrcene	785	0.0785	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α -Ocimene	110	0.011	
β -Ocimene	535	0.0535	
α -Pinene	847	0.0847	
β -Pinene	851	0.0851	
α -Terpinene	-	-	
γ -Terpinene	-	-	
Terpinolene	104	0.0104	
TOTAL	15093	1.51	



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

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"-" Not detected above RL.

Reporting Limit ($\mu\text{g/g}$): 2.08

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PESTICIDES PROFILE

Analysis Date/Time: 05/27/2020 0849

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
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

Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

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: 05/27/2020 0849

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)

1

"-" not detected above reporting limit

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HEAVY METAL PROFILE**Analysis Date/Time:** 05/27/2020 0849**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
reporting limit

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/27/2020 0849	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
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RESULT > AL

Reporting Limit (CFU/g)
1

"-" not detected above reporting limit

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