

## SUMMARY OF ANALYSIS (SAMPLE ID: SA27613)

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

<b>Moisture Content (%)</b> 12.8	<b>PASS/FAIL</b> <b>PASS</b>	<b>Water Activity (aw)</b> 0.42 @ 22.0°C	<b>PASS/FAIL</b> <b>PASS</b>
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<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:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Mycotoxins:	<b>PASS</b>
Pesticides:	<b>PASS</b>
Visual Inspection:	<b>PASS</b>



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 @ 21.99Å°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
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	-	-
<b>TOTAL</b>	<b>19.1</b>	<b>191</b>			<b>191</b>
<b>TOTAL THC</b>	<b>16.4</b>	<b>164</b>			<b>164</b>
<b>TOTAL CBD</b>	<b>0.054</b>	<b>0.54</b>			<b>0.54</b>

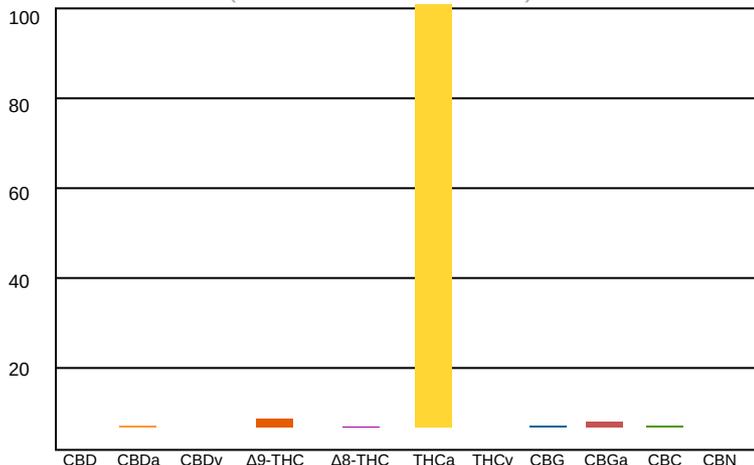


**UNIT MASS (g): 1**

"-" Not detected above RL.

### 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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<b>Cultivar (Strain) or Sample Description:</b> Forbidden Zkittles			<b>Date Completed:</b> 05/28/2020

## 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 (µg/g)</u>	<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
<b>TOTAL</b>	<b>15093</b>	<b>1.51</b>



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 2.08**

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**Cultivar (Strain) or Sample Description:** Forbidden Zkittles **Date Completed:** 05/28/2020

## PESTICIDES PROFILE

**Analysis Date/Time:** 05/27/2020 0849  
**Analyst:** DJ

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

<u>Pesticide</u>	<u>Result (µg/g)</u>	<u>Action Level (µg/g)</u>
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	Sythane	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  
**Analyst:** DJ

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
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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<b>Cultivar (Strain) or Sample Description:</b> Forbidden Zkittles			

**HEAVY METAL PROFILE**

**Analysis Date/Time:** 05/27/2020 0849  
**Analyst:** CC

**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000

**Deviations from SOP:**  
None

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
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

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

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