

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: SA25427)

Testing Location:	Customer ID: 1648	Order ID: OR7942	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	MZ040306	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 04/09/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 04/09/2020
Cultivar (Strain) or Sample I	Date Completed: 04/13/2020		

*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	
11.5	PASS	0.42 @ 22.3°C	PASS	
<u>Cannabinoids (Te</u>	<u>ор 3)</u>	<u>(%)</u>	mg/g	
THCa		17	170	
CBGa		0.481	5	
Δ9-THC		0.325	3	
TOTAL CBD		0.0698 0.698		
TOTAL THC		15.2	152	
TOTAL CANNABI	NOIDS	18.1	181	
Terpenes (Top	5)	<u>(%)</u>	μg/g	
β-Caryophyller	ie	0.161	1612	
d-Limonene		0.135	1349	
Guaiol		0.123	1231	
Linalool	Linalool 0.083		826	
α-Humulene		0.076 761		
TOTAL TERPEN	IES	0.662	6623	
Contaminants	PASS/FAIL	Sample Picture Up	on Receipt	

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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Cultivar (Strain) or Sample Description: Mandarin Zkittles

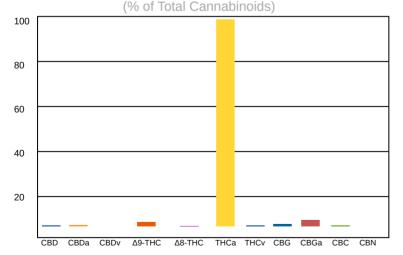
CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/09/2020 1206 Analyst: WW

Method: HPLC/DAD Instrument: Agilent 1100 Moisture Content (%): 11.5 Water Activity (aw): 0.4176 @ 22.32°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>Reporting Limit</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per Unit</u> (mg)	
CBD	0.0207	0.207	0.0499	-	0.207	
CBDa	0.0559	0.559	0.0499	-	0.559	R . T
CBDv	0.00613	0.0613	0.0499	-	0.0613	of a land
Δ9-ΤΗϹ	0.325	3.25	0.0499	-	3	safe
$\Delta 8$ -THC	0.0139	0.139	0.0499	-	0.139	2 3
THCa	17	170	0.0499	-	170	
THCv	0.032	0.32	0.0499	-	0.32	and the second
CBC	0.0162	0.162	0.0499	-	0.162	
CBG	0.171	1.71	0.0499	-	1.71	
CBGa	0.481	4.81	0.0499	-	5	
CBN	-	-	0.0499	-	-	
TOTAL	18.1	181		-	181	UNIT MASS (g): 1
TOTAL THC	15.2	152		-	152	"-" Not detected above RL.
TOTAL CBD	0.0698	0.698		-	0.698	

Cannabinoid Distribution



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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) + Δ 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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Cultivar (Strain) or Sample Description: Mandarin Zkittles

TERPENOID PROFILE

	04/00/0000 4000	76.1		
Analysis Date/Time: 04/09/2020 1206 Analyst: DJ			<pre>nod: HS/GC/FID (Internal Methc rument: Agilent 6890</pre>	bd-002) Deviations from SOP: None
Analyst. DJ		IIISU	unient. Agnent 0050	INOILE
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	227	0.0227	1	
Camphene		-	•	H.
δ-3-Carene	_	_		P P P P P P P P P P P P P P P P P P P
β-Caryophyllene	1612	0.161		Safe
Caryophyllene oxide	-	-	-	E H
p-Cymene	-	-		
Eucalyptol	-	-		
Geraniol	-	-		
Guaiol	1231	0.123		Abbreviations: HS - Headspace, GC -
α-Humulene	761	0.0761		Gas Chromatography, MS - Mass
Isopulegol	-	-	_	Spectrometry, RL - Reporting Limit
d-Limonene	1349	0.135	-	This information is provided as a service and makes no claims of efficacy and/or safety of this product.
Linalool	826	0.0826		Results are applicable only for the
β-Myrcene cis-Nerolidol	134	0.0134	I	sample(s) analyzed and for the specific analysis conducted.
trans-Nerolidol	-	-		This report is for informational purposes only and should not be used to
α-Ocimene	-	-		diagnose, treat, or prevent any
β-Ocimene	-	-		medical-related symptoms. The statements and results herein have
α-Pinene	158	0.0158		not been approved and/or endorsed by
β-Pinene	325	0.0325		the FDA.
α-Terpinene	-	-		
γ-Terpinene	-	-		
Terpinolene	-	-		"-" Not detected above RL.
TOTAL	6623	0.662		Reporting Limit (µg/g): 2





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Cultivar (Strain) or Sample Description: Mandarin Zkittles

Analysis Date/Time: 04/09/2020 1206 Analyst: DJ

PESTICIDES PROFILE

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

Deviations from SOP:

None

Pesticide	<u>Result</u> (µg/g)	<u>Action Level</u> <u>(µg/g)</u>	<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
Etoxazole (153233-91-1)	-	0.5	Reporting Limit (µg/g)
Imazalil (35554-44-0)	-	0.5	1/2 of AL
Imidacloprid (138261-41-3)	-	0.5	
Malathion (121-75-5)	-	0.5	"-" not detected above reporting limit
Myclobutanil (88671-89-0)	-	0.5	reporting mint
Permethrins* (52645-53-1)	-	0.5	"*" analyzed by GC/MS
Spinosad A (168316-95-8)	-	0.5	(all others analyzed
Spinosad D (168316-95-8)	-	0.5	by LC/MS/MS)
Spiromesifen (283594-90-1)	-	0.5	Permethrins measured as
Spirotetramat (203313-25-1)	-	0.5	the cumulative residue of
Tebuconazole (80443-41-0)	-	0.5	the <i>cis</i> - and <i>trans-</i> permethrin isomers.

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

Pesticide	<u>Synonym(s)</u>	Pesticide	<u>Synonym(s)</u>	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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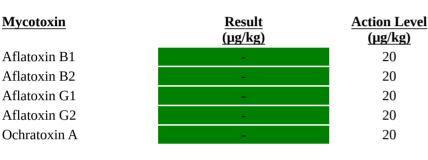
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MYCOTOXIN PROFILE

Analysis Date/Time: 04/09/2020 1206 Analyst: DJ

Method: LC/MS/MS Instrument: Waters Acquity/TQD **Deviations from SOP:** None





Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

Color Key



Reporting Limit (CFU/g) 1

"-" not detected above reporting limit

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HEAVY METAL PROFILE

Analysis Date/Time: 04/09/2020 1206 Analyst: CC

Method: ICP/MS Instrument: PerkinElmer Elan 9000

Deviations from SOP: None



Mercury (Hg)

<u>Result</u> (µg/kg)	<u>Action Level</u> <u>(μg/kg)</u>
-	400
-	440
-	1000
-	200



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key



Reporting Limit (µg/kg) 50

"-" not detected above reporting limit

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/09/2020 1206 Analyst: KB

Method: Hardy Diagnostics CompactDry Instrument: Thermo Incubator

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Deviations from SOP: None

Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Leve</u> (CFU/g)
Aerobic Plate Count, Total	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	10000
Yeast	Absent	10000
Salmonella spp.	Absent	1

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

Color Key



Reporting Limit (CFU/g) 1

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