

## SUMMARY OF ANALYSIS (SAMPLE ID: SA25425)

<b>Testing Location:</b>	<b>Customer ID:</b> 1648	<b>Order ID:</b> OR7942	<b>Sample Type:</b> Primary
OKC	Red Dirt Sungrown	<b>Lot Number:</b>	<b>Matrix:</b> Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	LC040307	<b>Mass:</b> 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	<b>Batch Number:</b>	<b>Date Collected:</b> 04/09/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	<b>Date Received:</b> 04/09/2020
<b>Cultivar (Strain) or Sample Description:</b> Lilac Cookies			<b>Date Completed:</b> 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.

<b>Moisture Content (%)</b>	<b>PASS/FAIL</b>	<b>Water Activity (aw)</b>	<b>PASS/FAIL</b>
13.0	PASS	0.41 @ 22.1°C	PASS

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	14.3	143
CBGa	0.827	8
Δ9-THC	0.579	6
TOTAL CBD	0.0654	0.654
TOTAL THC	13.1	131
TOTAL CANNABINOIDS	15.9	159

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>μg/g</u>
β-Caryophyllene	0.134	1336
Terpinolene	0.125	1246
β-Ocimene	0.100	998
β-Myrcene	0.084	844
α-Humulene	0.075	746
TOTAL TERPENES	0.568	5681

<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.  
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## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25425)

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## CANNABINOID (POTENCY) PROFILE

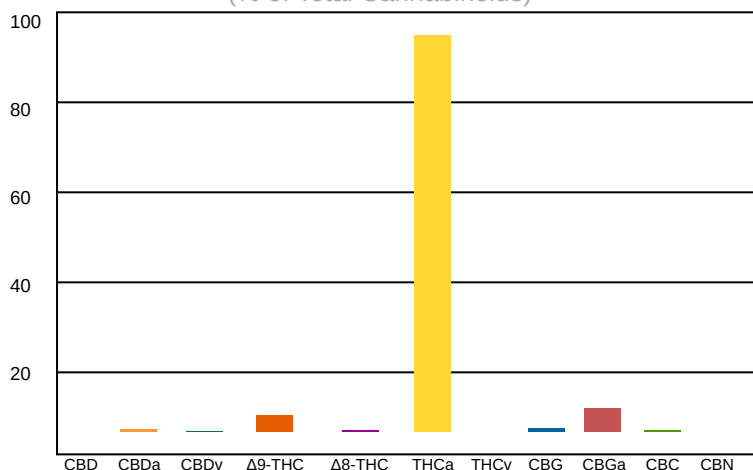
**Analysis Date/Time:** 04/09/2020 1206 **Method:** HPLC/DAD **Moisture Content (%):** 13  
**Analyst:** WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4071 @ 22.15Å°C

<b>Cannabinoid</b>	<b>Result (%)</b>	<b>Result (mg/g)</b>	<b>Reporting Limit (mg/g)</b>	<b>Result (mg/mL)</b>	<b>Per Unit (mg)</b>
CBD	-	-	0.0505	-	-
CBDa	0.0745	0.745	0.0505	-	0.745
CBDv	0.00904	0.0904	0.0505	-	0.0904
Δ9-THC	0.579	5.79	0.0505	-	6
Δ8-THC	0.0139	0.139	0.0505	-	0.139
THCa	14.3	143	0.0505	-	143
THCv	-	-	0.0505	-	-
CBC	0.0164	0.164	0.0505	-	0.164
CBG	0.0943	0.943	0.0505	-	0.943
CBGa	0.827	8.27	0.0505	-	8
CBN	-	-	0.0505	-	-
<b>TOTAL</b>	15.9	159	-	-	159
<b>TOTAL THC</b>	13.1	131	-	-	131
<b>TOTAL CBD</b>	0.0654	0.654	-	-	0.654



## 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:** 04/09/2020 1206  
**Analyst:** DJ

**Method:** HS/GC/FID (Internal Method-002)  
**Instrument:** Agilent 6890

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	190	0.019	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	1336	0.134	■
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	746	0.0746	■
Isopulegol	-	-	
d-Limonene	45	0.00448	■
Linalool	-	-	
β-Myrcene	844	0.0844	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	998	0.0998	■
α-Pinene	154	0.0154	■
β-Pinene	-	-	
α-Terpinene	67	0.00668	■
γ-Terpinene	54	0.00545	■
Terpinolene	1246	0.125	■
<b>TOTAL</b>	<b>5681</b>	<b>0.568</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): 2.02**

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### PESTICIDES PROFILE

**Analysis Date/Time:** 04/09/2020 1206

**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:** 04/09/2020 1206**Method:** LC/MS/MS**Deviations from SOP:****Analyst:** DJ**Instrument:** Waters Acquity/TQD

None

<b><u>Mycotoxin</u></b>	<b><u>Result</u></b> <b><u>(µg/kg)</u></b>	<b><u>Action Level</u></b> <b><u>(µg/kg)</u></b>
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**

<b>RESULT &lt; 1/2 AL</b>
<b>1/2 AL &lt; RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

**Reporting Limit (CFU/g)**

1

"- " not detected above  
reporting limit

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**HEAVY METAL PROFILE****Analysis Date/Time:** 04/09/2020 1206**Method:** ICP/MS**Deviations from SOP:****Analyst:** CC**Instrument:** PerkinElmer Elan 9000

None

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

<b>RESULT &lt; 1/2 AL</b>
<b>1/2 AL &lt; RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

**Reporting Limit (µg/kg)**  
50"- " not detected above  
reporting limit

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**MICROBIOLOGICAL PROFILE****Analysis Date/Time:** 04/09/2020 1206**Method:** Hardy Diagnostics CompactDry**Deviations from SOP:****Analyst:** KB**Instrument:** Thermo Incubator

None

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

<b>RESULT &lt; 1/2 AL</b>
<b>1/2 AL &lt; RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

**Reporting Limit (CFU/g)**  
1"- " not detected above  
reporting limit

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