

SUMMARY OF ANALYSIS (SAMPLE ID: SA28003)

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: Lilac Cookies			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
11.9	PASS	0.31 @ 28.2°C	PASS

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	17.3	173
CBGa	0.985	10
Δ9-THC	0.765	8
TOTAL CBD	0.064	0.64
TOTAL THC	16	160
TOTAL CANNABINOIDS	19.3	193

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.522	5221
β-Ocimene	0.490	4902
Terpinolene	0.484	4836
β-Myrcene	0.438	4375
α-Humulene	0.232	2320
TOTAL TERPENES	2.59	25870

<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
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28003)

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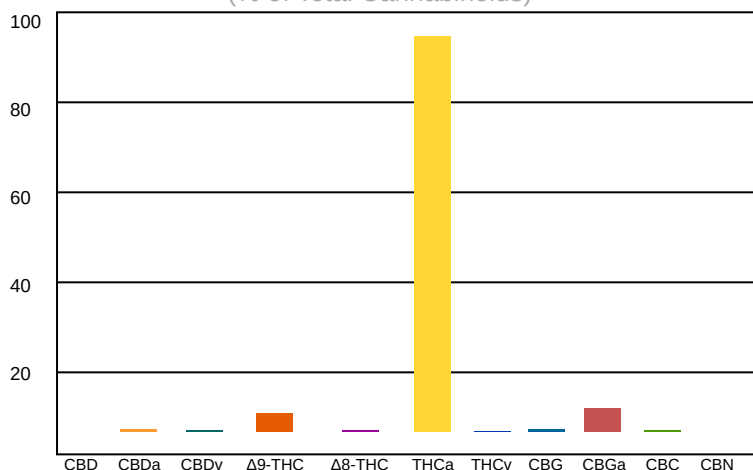
CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 06/02/2020 1159 **Method:** HPLC/DAD **Moisture Content (%):** 11.9
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.3096 @ 28.19Å°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0518	-	-
CBDa	0.073	0.73	0.0518	-	0.73
CBDv	0.0199	0.199	0.0518	-	0.199
Δ9-THC	0.765	7.65	0.0518	-	8
Δ8-THC	0.0267	0.267	0.0518	-	0.267
THCa	17.3	173	0.0518	-	173
THCv	0.0135	0.135	0.0518	-	0.135
CBC	0.0247	0.247	0.0518	-	0.247
CBG	0.0946	0.946	0.0518	-	0.946
CBGa	0.985	9.85	0.0518	-	10
CBN	-	-	0.0518	-	-
TOTAL	19.3	193	-	-	193
TOTAL THC	16	160	-	-	160
TOTAL CBD	0.064	0.64	-	-	0.64



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

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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	768	0.0768	■
Camphene	-	-	
δ-3-Carene	189	0.0189	■
β-Caryophyllene	5221	0.522	■
Caryophyllene oxide	319	0.0319	■
p-Cymene	59	0.0059	■
Eucalyptol	109	0.0109	■
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	2320	0.232	■
Isopulegol	82	0.00822	■
d-Limonene	521	0.0521	■
Linalool	311	0.0311	■
β-Myrcene	4375	0.438	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	289	0.0289	■
β-Ocimene	4902	0.49	■
α-Pinene	370	0.037	■
β-Pinene	717	0.0717	■
α-Terpinene	258	0.0258	■
γ-Terpinene	221	0.0221	■
Terpinolene	4836	0.484	■
TOTAL	25870	2.59	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 2.07

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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)
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:** 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
reporting limit

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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
reporting limit

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