

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

CERTIFICATE OF ANALYSIS

Order Type: Cannabis **Order ID:** OR2019-6143

Analyst: OL

TOTAL CBD

R2019-6143

Cultivar (Strain): Lilac Cookies **Sample Date:** 12/19/2019

Analysis Date/Time: 12/24/1914 0800

Customer ID: 1648 **Customer Name:** Red Dirt Sungrown

Lab ID: SA2019-19299 **Date Received:** 12/19/2019

Harvest/Extract Lot: LC121901 Harvest/Extract Batch: None

Sample Matrix: Flower **Date Completed:** 12/26/2019

Remarks:

CANNABINOID (POTENCY) PROFILE

0.448

Method: HPLC/DAD **Instrument:** Agilent 1100

Moisture Content (%): 12.5

Water Activity (aw): 0.3994 @ 23.14°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0502	-	-
CBDa	0.0511	0.511	0.0502	-	0.511
CBDv	0.521	5.21	0.0502	-	5
Δ9-ΤΗС	0.466	4.66	0.0502	-	5
Δ8-ΤΗС	-	-	0.0502	-	-
THCa	20.8	208	0.0502	-	208
THCv	-	-	0.0502	-	-
CBC	-	-	0.0502	-	-
CBG	0.165	1.65	0.0502	-	1.65
CBGa	0.833	8.33	0.0502	-	8
CBN	-	-	0.0502	-	-
TOTAL	22.0	220			220



 TOTAL
 22.9
 229
 229

 TOTAL THC
 18.7
 187
 187

(5)

UNIT MASS (g): 1

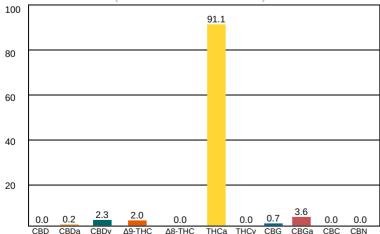
"-" Not detected above RL.

Cannabinoid Distribution

0.448

0.0448

(% of Total Cannabinoids)



Values for plant matter are adjusted for moisture content.

Recoveries for all analyte standards: 90-110%

Replicate Uncertainties: <5% RSD, <20% RPD Sample/Reagent Blanks: <RL for all analytes

Deviations from standard operating procedure: None

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

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.





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R2019-6143 Cus

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Lab ID: SA2019-19299 **Date Received:** 12/19/2019

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Date Completed: 12/26/2019

Harvest/Extract Lot: LC121901

Harvest/Extract Batch: None

Remarks:

TERPENOID PROFILE

Analysis Date/Time: 12/24/1914 0800

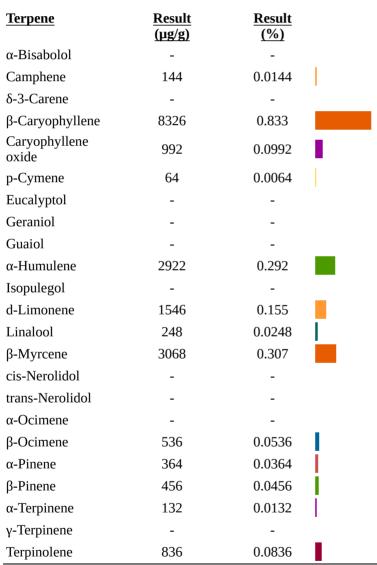
Analyst: OL

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

Instrument: Agilent 6890

Deviations from SOP:

None





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

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"-" Not detected above RL.

TOTAL 19634 1.96 Reporting Limit (μg/g): 200





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Cultivar (Strain): Lilac CookiesLab ID: SA2019-19299Sample Matrix: FlowerSample Date: 12/19/2019Date Received: 12/19/2019Date Completed: 12/26/2019

Remarks:

PESTICIDES PROFILE

Analysis Date/Time: 12/24/1914 0800 Method: LC/MS/MS Deviations from SOP:
Analyst: OL Instrument: Waters Acquity/TQD None

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





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Remarks:

MYCOTOXIN PROFILE

Analysis Date/Time: 12/24/1914 0800 Method: LC/MS/MS Deviations from SOP:
Analyst: OL Instrument: Waters Acquity/TQD None

Mycotoxin	<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)

"-" not detected above reporting limit





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Remarks:

HEAVY METAL PROFILE

Analysis Date/Time: 12/24/1914 0800 Method: ICP/MS Deviations from SOP:

Analyst: OL Instrument: PerkinElmer Elan 9000 None

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

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 12/24/1914 0800 Method: Hardy Diagnostics CompactDry Deviations from SOP:
Analyst: OL Instrument: Thermo Incubator None

Bacteria/Microbe	Result (CFU/g)	Action Level (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

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

