

Arkansas Location 232 S Broadview St Greenbrier, AR 72058 (501) 679-2616

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 (SAMPLE ID: SA28236)

Testing Location:

OKC

3680 E. I-240 Service Rd.

Oklahoma City, OK 73135

License: LAAA-4Y4X-Z72Z

Customer ID: 1648

Red Dirt Sungrown

P.O. Box 1399 Guthrie, OK 73044

License: GAAA-41RN-M7KD

Order ID: OR8793

0.88

Lot Number: PM060406

Batch Number:

Not Entered

Sample Type: Primary

Matrix: Flower

Mass: 5g

Date Collected: 06/08/2020 Date Received: 06/08/2020

Date Completed: 06/15/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 06/10/2020 1046

Analyst: WW

TOTAL CBD

Method: HPLC/DAD

Instrument: Agilent 1100

Moisture Content (%): -Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.013	0.13	0.05	* 15	0.13
CBDa	0.0856	0.856	0.05	=0	0.856
CBDv	0.00636	0.0636	0.05		0.0636
Δ9-ΤΗС	0.487	5	0.05	₩3	5
$\Delta 8$ -THC	0.0213	0.213	0.05	22 %	0.213
THCa	21	210	0.05	-	210
THCv	0.029	0.29	0.05	= 2	0.29
CBC	0.0979	0.979	0.05	 //	0.979
CBG	0.185	1.85	0.05	₩)	1.85
CBGa	0.259	3	0.05	-8	3
CBN	3 	-	0.05	- 0	-
TOTAL	22.2	222		示	222
TOTAL THC	18.9	189		-,	189



Cannabinoid Distribution

0.88

0.088

(% of Total Cannabinoids) 100 80 60 40 20 CBDa CBDv Δ9-ΤΗС Δ8-ΤΗС THCa THCv CBG CBGa CBC 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) + $\Delta 9$ -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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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28236)

Testing Location:

OKC

3680 E. I-240 Service Rd.

Oklahoma City, OK 73135

License: LAAA-4Y4X-Z72Z

Cultivar (Strain) or Sample Description: Pineapple Muffin

P.O. Box 1399 Guthrie, OK 73044

Customer ID: 1648

Red Dirt Sungrown

License: GAAA-41RN-M7KD

Order ID: OR8793

Lot Number:

Batch Number:

Not Entered

PM060406

Sample Type: Primary

Matrix: Flower

Mass: 5g

Date Collected: 06/08/2020 Date Received: 06/08/2020

Date Completed: 06/15/2020

TERPENOID PROFILE

Analysis Date/Time: 06/10/2020 1046

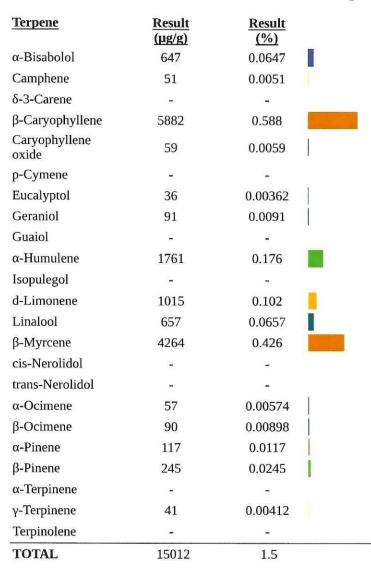
Analyst: DJ

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.

Reporting Limit (µg/g): 2







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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28236)

Testing Location:

Customer ID: 1648

Sample ID: SA28236

Sample Type: Primary

OKC

3680 E. I-240 Service Rd.

Red Dirt Sungrown Lot Number: Matrix: Flower

P.O. Box 1399

PM060406

Mass: 5g

Oklahoma City, OK 73135

Guthrie, OK 73044

Action Level

(µg/g)

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

Batch Number:

Not Entered

Date Collected: 06/08/2020

License: LAAA-4Y4X-Z72Z

License: GAAA-41RN-M7KD

Date Received: 06/08/2020

Cultivar (Strain) or Sample Description: Pineapple Muffin

Result

 $(\mu g/g)$

Date Completed: 06/17/2020

PESTICIDES PROFILE

Analysis Date/Time: 06/10/2020 1046

Method: LC/MS/MS

Deviations from SOP:

Analyst: DJ

Abamectin (71751-41-2)

Azoxystrobin (131860-33-8)

Bifenazate* (149877-41-8)

Imidacloprid (138261-41-3)

Myclobutanil (88671-89-0)

Permethrins* (52645-53-1)

Spinosad A (168316-95-8)

Spinosad D (168316-95-8)

Spiromesifen (283594-90-1)

Spirotetramat (203313-25-1)

Tebuconazole (80443-41-0)

Etoxazole (153233-91-1)

Imazalil (35554-44-0)

Malathion (121-75-5)

Pesticide

Instrument: Waters Acquity/TQD

None

RESULT < 1/2 AI 1/2 AL < RESULT < AL RESULT > AL

Color Key

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 transpermethrin isomers.



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

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

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REPORT OF LABORATORY ANALYSIS



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Red Dirt Sungrown P.O. Box 1399

Guthrie, OK 73044 License: GAAA-41RN-M7KD Not Entered

Sample ID: SA28236

Lot Number:

PM060406

Batch Number:

Sample Type: Primary

Matrix: Flower

Mass: 5g

Date Collected: 06/08/2020 Date Received: 06/08/2020

Date Completed: 06/17/2020

MYCOTOXIN PROFILE

Analysis Date/Time: 06/10/2020 1046

Analyst: DJ

Method: LC/MS/MS

Instrument: Waters Acquity/TQD

Deviations from SOP:

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 AI 1/2 AL < RESULT < AL RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z Customer ID: 1648

Red Dirt Sungrown

P.O. Box 1399 Guthrie, OK 73044

License: GAAA-41RN-M7KD Not Entered

Sample ID: SA28236

Lot Number:

PM060406

Batch Number:

Matrix: Flower

Mass: 5g

Date Collected: 06/08/2020

Sample Type: Primary

Date Received: 06/08/2020 **Date Completed: 06/15/2020**

HEAVY METAL PROFILE

Analysis Date/Time: 06/10/2020 1046

Analyst: CC

Method: ICP/MS

Instrument: PerkinElmer Elan 9000

Deviations from SOP:

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)	MACAPATA LA CARRELLA	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)

"-" not detected above reporting limit

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Sample ID: SA28236

Lot Number: PM060406

Batch Number:

Mass: 5g **Date Collected: 06/08/2020**

Sample Type: Primary

Matrix: Flower

Date Received: 06/08/2020 **Date Completed:** 06/15/2020

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 06/09/2020 1323

Analyst: DJ

Method: Hardy Diagnostics CompactDry

Instrument: Thermo Incubator

Deviations from SOP:

None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	Absent	-
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)

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