

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: SA28233)

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

Lot Number:

CC060404

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

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	0.00746	0.0746	0.0494		0.0746
CBDa	0.0479	0.479	0.0494	-	0.479
CBDv	0.00572	0.0572	0.0494	-	0.0572
$\Delta 9$ -THC	0.477	5	0.0494	-	5
Δ8-ΤΗС	0.0161	0.161	0.0494	-	0.161
THCa	18.8	188	0.0494	-	188
THCv	0.0155	0.155	0.0494	-	0.155
CBC	0.0191	0.191	0.0494	-	0.191
CBG	0.089	0.89	0.0494	-	0.89
CBGa	0.844	8	0.0494	-	8
CBN	-	-	0.0494	-	1.5



TOTAL 20.3203 TOTAL THC 17 170 TOTAL CBD

0.495

0.0495

UNIT MASS (g): 1

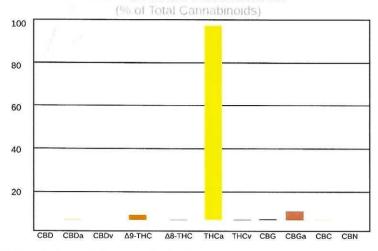
203

170

0.495

"-" Not detected above RL.

Cannabinoid Distribution



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

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.



REPORT OF LABORATORY ANALYSIS





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0.0988

0.128

0.0388

0.365

0.00579

0.0313

0.137

0.0814

0.0102

1.09

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Batch Number:

Not Entered

CC060404

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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

Cultivar (Strain) or Sample Description: Crystal Cookies

988

1283

388

3648

58

313

1367

814

102

10916

Analyst: DJ

α-Humulene

Isopulegol

Linalool

β-Myrcene

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

cis-Nerolidol

trans-Nerolidol

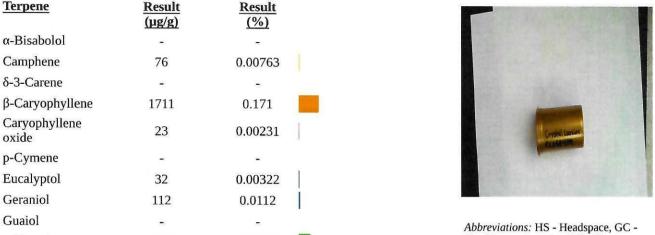
d-Limonene

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

Instrument: Agilent 6890

Deviations from SOP:

None



Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

Reporting Limit (µg/g): 1.98







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Lot Number: CC060404

Sample ID: SA28233

Batch Number:

Not Entered

Sample Type: Primary

Matrix: Flower

Mass: 5g

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

Date Completed: 06/17/2020

PESTICIDES PROFILE

Analysis Date/Time: 06/10/2020 1046

Analyst: DJ

Method: LC/MS/MS

Instrument: Waters Acquity/TQD

Deviations from SOP:

None

<u>Pesticide</u>	Result (µg/g)	Action Level (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)	TOTAL CITY	0.5
Imidacloprid (138261-41-3)		0.5
Malathion (121-75-5)	H HARLE	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 transpermethrin 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	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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Sample ID: SA28233

Lot Number:

CC060404

Not Entered

Batch Number:

Mass: 5g

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

Sample Type: Primary

Matrix: Flower

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	Result (µg/kg)	<u>Action Level</u> (μg/kg)
Aflatoxin B1	ALL BOWN LAW DOOR IN	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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Red Dirt Sungrown P.O. Box 1399

Guthrie, OK 73044 License: GAAA-41RN-M7KD Sample ID: SA28233

Lot Number: CC060404

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

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)	May Mikray His	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)

"-" not detected above reporting limit







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Customer ID: 1648

Red Dirt Sungrown P.O. Box 1399

Guthrie, OK 73044

License: GAAA-41RN-M7KD Not Entered

Sample ID: SA28233

Lot Number:

CC060404

Batch Number:

Sample Type: Primary

Matrix: Flower

Mass: 5g

Date Collected: 06/08/2020 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)

"-" not detected above reporting limit



