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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

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22916)

Testing Location:	**Customer ID:** 1648	**Order ID:** OR2020-7229	**Sample Type:** Primary
OKC	Red Dirt Sungrown	**Lot Number:**	**Matrix:** Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	AOG021401	**Mass:** 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	**Batch Number:**	**Date Collected:** 02/20/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	**Date Received:** 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG

Date Completed: 02/25/2020

*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.

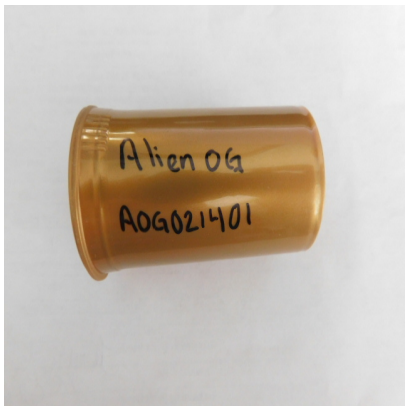
Moisture Content (%)	PASS/FAIL	Water Activity (aw)	PASS/FAIL
11.6	PASS	0.26 @ 21.8ºC	PASS

Cannabinoids (Top 3)	(%)	mg/g
THCa	29.6	296
Δ9-THC	0.786	8
CBGa	0.568	6
TOTAL CBD	0.0705	0.705
TOTAL THC	26.7	267
TOTAL CANNABINOIDS	31.3	313

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.633	6331
β-Caryophyllene	0.438	4376
d-Limonene	0.214	2139
α-Humulene	0.204	2042
α-Bisabolol	0.074	738
TOTAL TERPENES	1.74	17368

Contaminants	PASS/FAIL
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, Ph.D.
Laboratory Director

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-22916)

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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

Order ID: OR2020-7229
Lot Number:
AOG021401
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Flower
Mass: 5g
Date Collected: 02/20/2020
Date Received: 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG

Date Completed: 02/25/2020

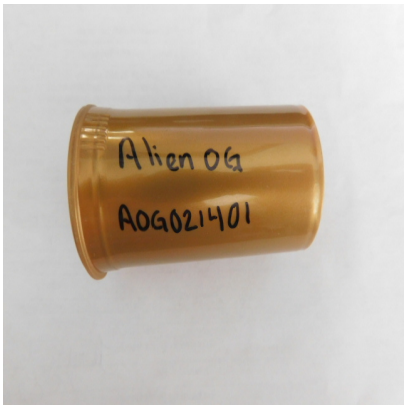
CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/21/2020 1051
Analyst: JI

Method: HPLC/DAD
Instrument: Agilent 1100

Moisture Content (%): 11.6
Water Activity (aw): 0.2601 @ 21.83ÂºC

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0514	-	-
CBDa	0.0804	0.804	0.0514	-	0.804
CBDv	0.177	1.77	0.0514	-	1.77
Δ9-THC	0.786	7.86	0.0514	-	8
Δ8-THC	-	-	0.0514	-	-
THCa	29.6	296	0.0514	-	296
THCv	-	-	0.0514	-	-
CBC	-	-	0.0514	-	-
CBG	0.122	1.22	0.0514	-	1.22
CBGa	0.568	5.68	0.0514	-	6
CBN	-	-	0.0514	-	-
TOTAL	31.3	313		-	313
TOTAL THC	26.7	267		-	267
TOTAL CBD	0.0705	0.705		-	0.705

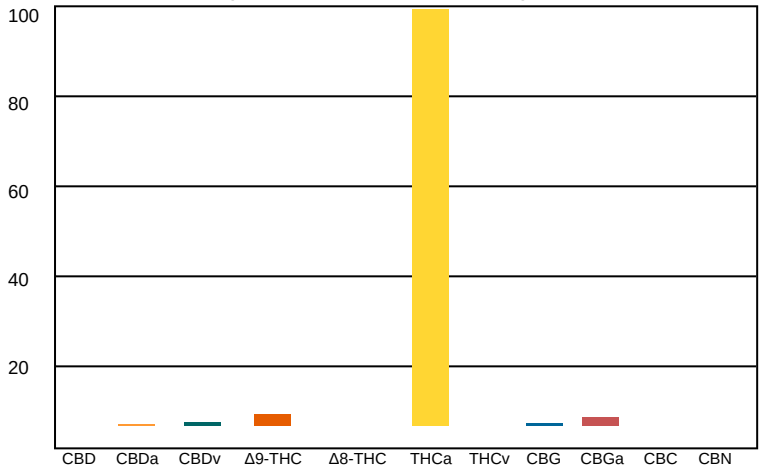


UNIT MASS (g): 1

"-" Not detected above RL.

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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SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22916)

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: OR2020-7229
Lot Number:
AOG021401
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Flower
Mass: 5g
Date Collected: 02/20/2020
Date Received: 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG

Date Completed: 02/25/2020

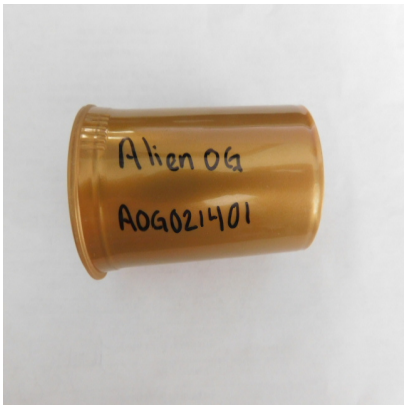
TERPENOID PROFILE

Analysis Date/Time: 02/21/2020 1051
Analyst: JS

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

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	738	0.0738
Camphene	63	0.00633
δ-3-Carene	-	-
β-Caryophyllene	4376	0.438
Caryophyllene oxide	224	0.0224
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	48	0.00479
Guaiol	-	-
α-Humulene	2042	0.204
Isopulegol	-	-
d-Limonene	2139	0.214
Linalool	458	0.0458
β-Myrcene	6331	0.633
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	93	0.00931
α-Pinene	211	0.0211
β-Pinene	478	0.0478
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	167	0.0167
TOTAL	17368	1.74



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 2.06

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SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22916)

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: OR2020-7229
Lot Number:
AOG021401
Batch Number:
Not Entered

Sample Type: Primary
Matrix: Flower
Mass: 5g
Date Collected: 02/20/2020
Date Received: 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG

Date Completed: 02/25/2020

PESTICIDES PROFILE

Analysis Date/Time: 02/21/2020 1051
Analyst: DJ

Method: LC/MS/MS
Instrument: Waters Acquity/TQD

Deviations from SOP:
None

Pesticide	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)	-	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

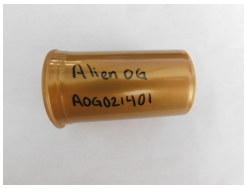
RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

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

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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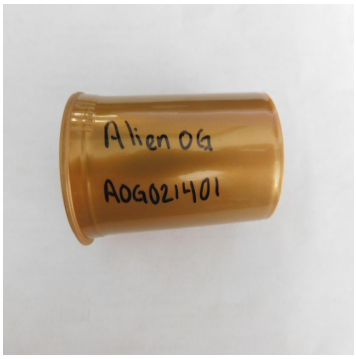
Testing Location:	**Customer ID:** 1648	**Order ID:** OR2020-7229	**Sample Type:** Primary
OKC	Red Dirt Sungrown	**Lot Number:**	**Matrix:** Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	AOG021401	**Mass:** 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	**Batch Number:**	**Date Collected:** 02/20/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	**Date Received:** 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG — **Date Completed:** 02/25/2020

MYCOTOXIN PROFILE

Analysis Date/Time: 02/21/2020 1051 — **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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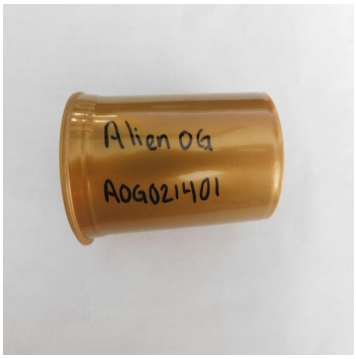
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	**Date Received:** 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG — **Date Completed:** 02/25/2020

HEAVY METAL PROFILE

Analysis Date/Time: 02/21/2020 1051 — **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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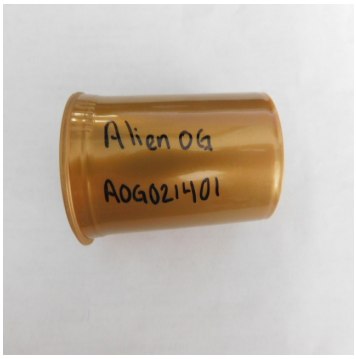
Oklahoma City, OK 73135	Guthrie, OK 73044	**Batch Number:**	**Date Collected:** 02/20/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	**Date Received:** 02/20/2020

Cultivar (Strain) or Sample Description: Alien OG — **Date Completed:** 02/25/2020

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 02/21/2020 1051 — **Method:** Hardy Diagnostics CompactDry — **Deviations from SOP:**
Analyst: KB — **Instrument:** Thermo Incubator — None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	70	-
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

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1/2 AL < RESULT < AL
RESULT > AL

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

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