

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: SA27617)

Testing Location:	Customer ID: 1648	Order ID: OR8591	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	NF052004	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 05/26/2020
Cultivar (Strain) or Sample I	Date Completed: 05/28/2020		

*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	
13.8	PASS	0.43 @ 23.6℃	PASS	
Cannabinoid	s (Top 3)	<u>(%)</u>	mg/g	
THC		23.5	235	
CBG	a	2.45	25	
Δ9- TH	IC	0.722	7	
TOTAL	CBD	0.0478	0.478	
TOTAL	ГНС	21.3 213		
TOTAL CANN	ABINOIDS	27	270	
<u>Terpenes (</u>	Top 5)	<u>(%)</u>	μg/g	
Terpinol	ene	0.679	6793	
β-Ocim	ene	0.341	3406	
β-Myrc	ene	0.263	2626	
β-Caryoph	yllene	0.146	1460	
d-Limor	iene	0.095 947		
TOTAL TEF	PENES	1.91	19061	
Contaminants	PASS/FAIL	Sample Picture Up	on Receipt	
Heavy Metals:	PASS			

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Visual Inspection:	PASS





Scan the QR code to verify results.

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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC



www.FASTLaboratories.com



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: SA27617)

Testing Location:	Customer ID: 1648	Order ID: OR8591	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	NF052004	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 05/26/2020
Cultivar (Strain) or Sample I	Date Completed: 05/28/2020		

Cultivar (Strain) or Sample Description: NC Fire

CANNABINOID (POTENCY) PROFILE

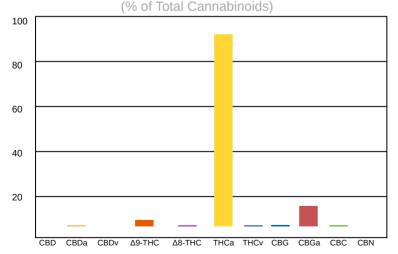
Analysis Date/Time: 05/27/2020 0904 Analyst: WW

Method: HPLC/DAD Instrument: Agilent 1100

Moisture Content (%): 13.8 Water Activity (aw): 0.4285 @ 23.56°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>Reporting Limit</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per Unit</u> (mg)
CBD	-	-	0.0507	-	-
CBDa	0.0545	0.545	0.0507	-	0.545
CBDv	0.0119	0.119	0.0507	-	0.119
Δ9-ΤΗϹ	0.722	7.22	0.0507	-	7
$\Delta 8$ -THC	0.025	0.25	0.0507	-	0.25
THCa	23.5	235	0.0507	-	235
THCv	0.0346	0.346	0.0507	-	0.346
CBC	0.082	0.82	0.0507	-	0.82
CBG	0.131	1.31	0.0507	-	1.31
CBGa	2.45	24.5	0.0507	-	25
CBN	-	-	0.0507	-	-
TOTAL	27	270		-	270
TOTAL THC	21.3	213		-	213
TOTAL CBD	0.0478	0.478		-	0.478

Cannabinoid Distribution



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.

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) + 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



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC



www.FASTLaboratories.com



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: SA27617)

Testing Location:	Customer ID: 1648	Order ID: OR8591	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	NF052004	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 05/26/2020
Cultivar (Strain) or Sample I	Date Completed: 05/28/2020		

TERPENOID PROFILE

Analysis Date/Time: 05/27/2020 0904 Analyst: DJ			od: HS/GC/FID (Internal Method ument: Agilent 6890	-002) Deviations from SOP: None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		State of the second
α-Bisabolol	573	0.0573		
Camphene	49	0.00493		
δ-3-Carene	215	0.0215		
β-Caryophyllene	1460	0.146		W Da
Caryophyllene oxide	-	-		a second
p-Cymene	46	0.00456		and the second se
Eucalyptol	101	0.0101		
Geraniol	107	0.0107		
Guaiol	-	-		bbreviations: HS - Headspace, GC -
α-Humulene	551	0.0551		as Chromatography, MS - Mass pectrometry, RL - Reporting Limit
Isopulegol	-	-		'his information is provided as a
d-Limonene	947 5.40	0.0947	Se	ervice and makes no claims of efficacy nd/or safety of this product.
Linalool β-Myrcene	540 2626	0.054 0.263	Sá	esults are applicable only for the ample(s) analyzed and for the specific nalysis conducted.
cis-Nerolidol trans-Nerolidol	-	-	Т р	his report is for informational urposes only and should not be used to iagnose, treat, or prevent any
α-Ocimene	138	0.0138		nedical-related symptoms.
β-Ocimene	3406	0.341		he statements and results herein have
α-Pinene	394	0.0394		ot been approved and/or endorsed by ne FDA.
β-Pinene	688	0.0688		
α-Terpinene	252	0.0252		
γ-Terpinene	174	0.0174		
Terpinolene	6793	0.679	".	" Not detected above RL.
TOTAL	19061	1.91		Reporting Limit (µg/g)







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: SA27617)

Testing Location:	Customer ID: 1648	Order ID: OR8591	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	NF052004	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 05/26/2020
Cultivar (Strain) or Sample I	Date Completed: 05/28/2020		

Cultivar (Strain) or Sample Description: NC Fire

Analysis Date/Time: 05/27/2020 0904 Analyst: DJ

PESTICIDES PROFILE

Method: LC/MS/MS Instrument: Waters Acquity/TQD **Deviations from SOP:**

None

Pesticide	<u>Result</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Color Key</u>
Abamectin (71751-41-2) Azoxystrobin (131860-33-8) Bifenazate* (149877-41-8)	(# <u>5</u> /5)	0.5 0.5 0.5	RESULT < 1/2 AL
Etoxazole (153233-91-1) Imazalil (35554-44-0)	-	0.5 0.5	Reporting Limit (μg/g) 1/2 of AL
Imidacloprid (138261-41-3) Malathion (121-75-5) Myclobutanil (88671-89-0)	-	0.5 0.5 0.5	"-" not detected above reporting limit
Permethrins* (52645-53-1) Spinosad A (168316-95-8)	-	0.5 0.5 0.5	"*" analyzed by GC/MS (all others analyzed
Spinosad D (168316-95-8) Spiromesifen (283594-90-1) Spirotetramat (203313-25-1)		0.5 0.5 0.5	by LC/MS/MS) Permethrins measured as the cumulative residue of
Tebuconazole (80443-41-0)	-	0.5	the <i>cis</i> - and <i>trans</i> - permethrin isomers.

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

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

Disclaimer: 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.







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: SA27617)

Testing Location:Customer ID: 1648OKCRed Dirt Sungrown3680 E. I-240 Service Rd.P.O. Box 1399Oklahoma City, OK 73135Guthrie, OK 73044License: LAAA-4Y4X-Z72ZLicense: GAAA-41RN-M7KD

Order ID: OR8591 Lot Number: NF052004 Batch Number: Not Entered Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/26/2020 Date Received: 05/26/2020 Date Completed: 05/28/2020

Cultivar (Strain) or Sample Description: NC Fire

MYCOTOXIN PROFILE

Analysis Date/Time: 05/27/2020 0904 **Analyst:** DJ Method: LC/MS/MS Instrument: Waters Acquity/TQD **Deviations from SOP:** None

MycotoxinResult
(µg/kg)Action Level
(µg/kg)Aflatoxin B1-20Aflatoxin B2-20Aflatoxin G1-20Aflatoxin G2-20Ochratoxin A-20



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

Color Key



Reporting Limit (CFU/g) 1

"-" not detected above reporting limit

Disclaimer: 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.

Kyle W. Felling, Ph.D. ry Dir

REPORT OF LABORATORY ANALYSIS This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC





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: SA27617)

Testing Location: Order ID: OR8591 Customer ID: 1648 Sample Type: Primary OKC Matrix: Flower Red Dirt Sungrown Lot Number: 3680 E. I-240 Service Rd. P.O. Box 1399 NF052004 Mass: 5g Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number:** Date Collected: 05/26/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered Date Received: 05/26/2020 Date Completed: 05/28/2020

Cultivar (Strain) or Sample Description: NC Fire

HEAVY METAL PROFILE

Analysis Date/Time: 05/27/2020 0904 Analyst: CC

Method: ICP/MS Instrument: PerkinElmer Elan 9000

Deviations from SOP: None

Heavy Metal Arsenic (As)

Cadmium (Cd) Lead (Pb) Mercury (Hg)

<u>Result</u> (µg/kg)	<u>Action Level</u> <u>(μg/kg)</u>
-	400
-	440
-	1000
-	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 < RESULT < AL **RESULT > AL**

Reporting Limit (µg/kg) 50

"-" not detected above reporting limit

Disclaimer: 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.

Kyle W. Felling, Ph.D. ry Di

REPORT OF LABORATORY ANALYSIS This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC





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: SA27617)

Testing Location:	Customer ID: 1648	Order ID: OR8591	Sample Type: Primary
OKC	Red Dirt Sungrown	Lot Number:	Matrix: Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	NF052004	Mass: 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	Batch Number:	Date Collected: 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	Date Received: 05/26/2020
Cultivar (Strain) or Sample I	Date Completed: 05/28/2020		

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/27/2020 0904 Analyst: DJ

Method: Hardy Diagnostics CompactDry **Instrument:** Thermo Incubator

> **Action Level** (CFU/g)

> > 1 10000

> > > 1

1

Deviations from SOP: None

Bacteria/Microbe	<u>Result</u> (CFU/g)
Escherichia Coli (E. Coli)	Absent
Mold/Yeast	Absent
Salmonella spp.	Absent
Staphylococcus Aureus	Absent



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



Reporting Limit (CFU/g) 1

"-" not detected above reporting limit

Disclaimer: 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.

Kyle W. Felling, Ph.D. ry Di

