

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: SA26533)**

**Testing Location:** Customer ID: 1648 Order ID: OR8270 Sample Type: Primary

OKC Red Dirt Sungrown **Lot Number: Matrix:** Flower 3680 E. I-240 Service Rd. P.O. Box 1399 BFXC043005 **Mass:** 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 05/04/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 05/04/2020

**Cultivar (Strain) or Sample Description:** Brain Freeze x Chem **Date Completed:** 05/06/2020

<sup>\*</sup>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
16.1	PASS	0.51 @ 22.0°C	PASS
<u>Cannabinoids (T</u>	<u>[op 3]</u>	<u>(%)</u>	mg/g
THCa		30	300
Δ9-ΤΗС		0.879	9
CBGa		0.743	7
TOTAL CBI	TOTAL CBD		0.655
TOTAL THO	TOTAL THC		272
TOTAL CANNABI	TOTAL CANNABINOIDS		320
Terpenes (Top	5)	<u>(%)</u>	µg/g
β-Myrcene	β-Myrcene		3275
β-Caryophylle	β-Caryophyllene		2523
α-Humulene		0.179	1794
d-Limonene		0.095	948
Linalool		0.067	666
TOTAL TERPE	NES	1.03	10301

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







Scan the QR code to verify results.

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<sup>\*</sup>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.



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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26533)**

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# **CANNABINOID (POTENCY) PROFILE**

Analysis Date/Time: 05/04/2020 1620 Method: HPLC/DAD Moisture Content (%): 16.1

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.5134 @ 22.03°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)	Alexander and the second
CBD	0.00959	0.0959	0.0519	-	0.0959	
CBDa	0.0637	0.637	0.0519	-	0.637	
CBDv	0.0169	0.169	0.0519	-	0.169	Drain Frenze
Δ9-ΤΗС	0.879	8.79	0.0519	-	9	
Δ8-ΤΗС	0.0424	0.424	0.0519	-	0.424	XChom
THCa	30	300	0.0519	-	300	C STICK
THCv	-	-	0.0519	-	-	B FXC 0413005
CBC	0.151	1.51	0.0519	-	1.51	211/2013003
CBG	0.131	1.31	0.0519	-	1.31	
CBGa	0.743	7.43	0.0519	-	7	
CBN	0.0119	0.119	0.0519	-	0.119	
TOTAL	32	320		-	320	UNIT MASS (g): 1
TOTAL THC	27.2	272		-	272	"-" Not detected above RL.
TOTAL CBD	0.0655	0.655		-	0.655	

# **Cannabinoid Distribution**

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\)-THC \(Delta\)-THC THCa THCV CBG CBGa CBC CBN

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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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## TERPENOID PROFILE

Analysis Date/Time: 05/04/2020 1620 Method: HS/GC/FID (Internal Method-002) Deviations from SOP:

Analyst: DJ Instrument: Agilent 6890 None

<u>Terpene</u>	<u>Result</u> (µg/g)	Result (%)
α-Bisabolol	381	0.0381
Camphene	33	0.0033
δ-3-Carene	-	-
β-Caryophyllene	2523	0.252
Caryophyllene oxide	128	0.0128
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	68	0.00683
Guaiol	-	-
α-Humulene	1794	0.179
Isopulegol	-	-
d-Limonene	948	0.0948
Linalool	666	0.0666
β-Myrcene	3275	0.327
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	80	0.00804
α-Pinene	126	0.0126
3-Pinene	279	0.0279
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	10301	1.03









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#### PESTICIDES PROFILE

Analysis Date/Time: 05/04/2020 1620 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

<u>Pesticide</u>	<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



# 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.



<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	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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## **MYCOTOXIN PROFILE**

**Analysis Date/Time:** 05/04/2020 1620 **Method:** LC/MS/MS **Deviations from SOP:** 

Analyst: DJ Instrument: Waters Acquity/TQD None

<u>Mycotoxin</u>	<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)
1

"-" not detected above reporting limit

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**HEAVY METAL PROFILE** 

**Analysis Date/Time:** 05/04/2020 1620 **Method:** ICP/MS **Deviations from SOP:** 

Analyst: CC Instrument: PerkinElmer Elan 9000 None

Heavy Metal	Result (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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Page 6 of 7

05/06/2020



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## MICROBIOLOGICAL PROFILE

**Analysis Date/Time:** 05/04/2020 1620 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: DJ Instrument: Thermo Incubator Non

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	TNTC	-
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)
1

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