

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: SA28091)

Testing Location:Customer ID: 710Order ID: OR8746Sample Type: PrimaryOKCSunday ExtractsLot Number:Matrix: Concentrate

3680 E. I-240 Service Rd. 1006 North Oak St Not Entered Mass: 2g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 06/03/2020 License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK RDS50527MO0360 **Date Received:** 06/03/2020

Cultivar (Strain) or Sample Description: Miami Orange

Date Completed: 06/08/2020

^{*}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
Not Tested	N/A	Not Tested	N/A
<u>Cannabinoids (To</u>	op 3)	<u>(%)</u>	mg/g
ТНСа		89.1	891
CBGa		1.82	18
Δ9-ТНС		1.01	10.1
TOTAL CBD		0.125	1.25
TOTAL THC		79.1	791
TOTAL CANNABINOIDS		92.1	921
Terpenes (Top	<u>5)</u>	<u>(%)</u>	μg/g
β-Caryophyller	ie	2.627	26273
d-Limonene	d-Limonene		14423
α-Humulene	α-Humulene		13682
β-Pinene	β-Pinene		2517
Terpinolene	Terpinolene		1598
TOTAL TERPEN	IES	6.91	69094

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





Scan the QR code to verify results.

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^{*}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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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 06/04/2020 0930 Method: HPLC/DAD Moisture Content (%): Analyst: WW Instrument: Agilent 1100 Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.513	-	-
CBDa	0.143	1.43	0.513	-	1.43
CBDv	-	-	0.513	-	-
Δ9-ΤΗС	1.01	10.1	0.513	-	10.1
Δ8-ΤΗС	-	-	0.513	-	-
THCa	89.1	891	0.513	-	891
THCv	-	-	0.513	-	-
CBC	0.0966	0.966	0.513	-	0.966
CBG	-	-	0.513	-	-
CBGa	1.82	18.2	0.513	-	18
CBN	-	-	0.513	-	-
TOTAL	92.1	921		-	921
TOTAL THC	79.1	791		-	791
TOTAL CBD	0.125	1.25		-	1.25

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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Date Completed: 06/08/2020

SUMMARY OF ANALYSIS (SAMPLE ID: SA28091)

Order ID: OR8746 **Testing Location:** Customer ID: 710 Sample Type: Primary **OKC** Matrix: Concentrate **Sunday Extracts** Lot Number:

3680 E. I-240 Service Rd. 1006 North Oak St Not Entered Mass: 2g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 06/03/2020 RDS50527MO0360 License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK **Date Received:** 06/03/2020

Cultivar (Strain) or Sample Description: Miami Orange

TERPENOID PROFILE

Analysis Date/Time: 06/04/2020 0930 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	1212	0.121
Camphene	577	0.0577
δ-3-Carene	-	-
β-Caryophyllene	26273	2.63
Caryophyllene oxide	1074	0.107
p-Cymene	784	0.0784
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	13682	1.37
Isopulegol	706	0.0706
d-Limonene	14423	1.44
Linalool	1285	0.129
β-Myrcene	1374	0.137
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	540	0.054
β-Ocimene	801	0.0801
α-Pinene	1386	0.139
β-Pinene	2517	0.252
α-Terpinene	402	0.0402
γ-Terpinene	460	0.046
Terpinolene	1598	0.16
TOTAL	69094	6.91

 $(\mu g/g)$: 20.5





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Cultivar (Strain) or Sample Description: Miami Orange

RESIDUAL SOLVENT PROFILE

Method: USP <467> **Analysis Date/Time:** 06/04/2020 0930 **Deviations from SOP:**

Analyst: CC **Instrument:** Agilent 6890

Solvent	<u>Result</u> (μg/g)	Action Level (μg/g)
Acetone (67-64-1)	-	1000
Benzene (71-43-2)	-	2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-83-2)	-	60
2,3-Dimethylbutane (79-29-8)	-	60
Ethyl benzene (100-41-4)	-	430
n-Heptane (142-82-5)	-	1000
n-Hexane (110-54-3)	-	60
Isobutane (75-28-5)	-	1000
Isopropanol (67-63-0)	-	1000
2-Methylbutane (78-78-4)	-	1000
2-Methylpentane (107-83-5)	-	60
3-Methylpentane (96-10-0)	-	60
n-Pentane (109-66-0)	-	1000
n-Propane (74-98-6)	-	1000
Toluene (108-88-3)	-	180
o-Xylene (95-47-6)	-	430
m,p-Xylene (108-38-3 or 106-42-3)	-	430
Xylenes* (1330-20-7)	-	430

DMSO

Color Key



Reporting Limit (µg/g) 1/2 of AL

"-" not detected above reporting limit

"*" - o,m,p-Xylene and Ethylbenzene



<u>Solvent</u>	Synonym(s)	<u>Solvent</u>	Synonym(s)	<u>Solvent</u>	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
1 Batanor	Alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanol	sec-Butyl alcohol	Ethyl benzene	Phenylethane	2-Methylpentane	Isohexane
2-Butanone	Methyl ethyl ketone, MEK	Ethylene glycol	1,2-Ethanediol	1-Pentanol	n-Amyl alcohol
125: 4		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
2,3-Dimethylbutane	Diisopropyl	1 1	1 ,	3	
N,N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene

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

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Dimethysufoxide



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Cultivar (Strain) or Sample Description: Miami Orange

PESTICIDES PROFILE

Analysis Date/Time: 06/04/2020 0930 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

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

<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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License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK RDS50527MO0360 **Date Received:** 06/03/2020

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MYCOTOXIN PROFILE

Analysis Date/Time: 06/04/2020 0930 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)

"-" not detected above reporting limit

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HEAVY METAL PROFILE

Analysis Date/Time: 06/04/2020 0930 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 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)	-	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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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 06/04/2020 0930 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ Instrument: Thermo Incubator None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
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

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