

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: SA27233)

Testing Location:Customer ID: 710Order ID: OR8487Sample 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: 05/18/2020 License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK RDS51210P352 Date Received: 05/18/2020 Cultivar (Strain) or Sample Description: 10th Planet Date Completed: 05/22/2020

*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
Not Tested	N/A	Not Tested	N/A
Cannabinoid	s (Top 3)	(%)	mg/g
THC	a	80.8	808
Δ9-ΤΗ	IC	0.677	7
CBD	a	0.162	1.62
TOTAL (CBD	0.142	1.42
TOTAL	ГНС	71.5	715
TOTAL CANNABINOIDS		81.6	816
Terpenes (<u>Top 5)</u>	<u>(%)</u>	μg/g
β-Caryophyllene β-Myrcene		2.280	22802
		1.041	10407
α-Humu	lene	1.020	10200
d-Limor	iene	0.409	4093
β-Pine	ne	0.269	2692
TOTAL TER	RPENES	6.16	61622
Contaminants	PASS/FAIL	Sample Picture Upo	on Receipt
Heavy Metals:	PASS		
Microbiology:	PASS		A PERSONAL PROPERTY.
Mycotoxins:	PASS	Control of the Contro	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ContaminantsPASS/FAILHeavy Metals:PASSMicrobiology:PASSMycotoxins:PASSPesticides:PASSResidual Solvents:PASSVisual Inspection:PASS





Scan the QR code to verify results.

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Date Completed: 05/22/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/22/2020 1400 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	-	-	0.506	-	-
CBDa	0.162	1.62	0.506	-	1.62
CBDv	-	-	0.506	-	-
Δ9-ΤΗС	0.677	6.77	0.506	-	7
Δ8-ΤΗС	-	-	0.506	-	-
THCa	80.8	808	0.506	-	808
THCv	-	-	0.506	-	-
CBC	-	-	0.506	-	-
CBG	-	-	0.506	-	-
CBGa	-	-	0.506	-	-
CBN	-	-	0.506	-	-
TOTAL	81.6	816		-	816
TOTAL THC	71.5	715		-	715
TOTAL CBD	0.142	1.42		_	1.42

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

20

CBD CBDa CBDv Δ9-THC Δ8-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) + 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







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TERPENOID PROFILE

Analysis Date/Time: 05/22/2020 1400 Method: HS/GC/FID (Internal Method-002) Deviations from SOP: Analyst: DJ Instrument: Agilent 6890 None

Analyst: DJ		Instr	ument: Agilent 6890
<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)	
α-Bisabolol	405	0.0405	
Camphene	2144	0.214	
δ-3-Carene	-	-	
β-Caryophyllene	22802	2.28	
Caryophyllene oxide	-	-	
p-Cymene	1437	0.144	1
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	632	0.0632	
α-Humulene	10200	1.02	
Isopulegol	-	-	
d-Limonene	4093	0.409	
Linalool	-	-	
β-Myrcene	10407	1.04	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	1589	0.159	1
α-Pinene	2650	0.265	1
β-Pinene	2692	0.269	1
α-Terpinene	-	-	

2571



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

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"-" Not detected above RL.

TOTAL 61622 6.16 **Reporting Limit (μg/g):** 20.2

0.257



γ-Terpinene Terpinolene





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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 05/22/2020 1400 Method: USP <467> **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

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

Reporting Limit (µg/g) 1/2 of AL

"-" not detected above reporting limit

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



Solvent	Synonym(s)	Solvent	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 Butanor	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
1.2 Dimetheywethane		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane		V 1 1	5	Sulfolane
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	
N.N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene
N.N-Dimenivironnanide	DIVIE				

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

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Dimethysufoxide



Page 4 of 8

05/22/2020



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PESTICIDES PROFILE

Analysis Date/Time: 05/22/2020 1400 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

Pesticide	Result (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

RESULT > 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
Ethonrophos	Prophos	Phosmet	Imidan		

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MYCOTOXIN PROFILE

Analysis Date/Time: 05/22/2020 1400 **Method:** LC/MS/MS **Deviations from SOP:**

Analyst: DJ Instrument: Waters Acquity/TQD Non

Mycotoxin	<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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Page 6 of 8

05/22/2020



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HEAVY METAL PROFILE

Analysis Date/Time: 05/22/2020 1400 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 Non

<u>Heavy Metal</u>	<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

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/22/2020 1400 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ Instrument: Thermo Incubator Non

Bacteria/Microbe Result **Action Level** (CFU/g) (CFU/g) Escherichia Coli (E. Coli) **Absent** 1 Mold/Yeast Absent 10000 Salmonella spp. Absent 1 Staphylococcus Aureus 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

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1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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