

**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: SA28092)**

**Testing Location:** Order ID: OR8746 Customer ID: 710 Sample Type: Primary **OKC Sunday Extracts** Lot 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 RDS528PZ1240 **Date Received:** 06/03/2020

Cultivar (Strain) or Sample Description: Patient Zero **Date Completed:** 06/08/2020

<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
Not Tested	N/A	Not Tested	N/A
Cannabinoids (To	op 3)	<u>(%)</u>	mg/g
THCa		85.9	859
Δ9-ΤΗС		1.95	20
CBGa		0.321	3
TOTAL CBD		0.193	1.93
TOTAL THO		77.3	773
TOTAL CANNABINOIDS		88.4	884
Terpenes (Top	<u>5)</u>	(%)	μg/g
β-Caryophyller	ie	2.083	20826
d-Limonene	d-Limonene		18644
α-Humulene	α-Humulene		11100
β-Pinene	β-Pinene		5048
β-Myrcene		0.397	3972
TOTAL TERPEN	IES	7.56	75630

<b>Contaminants</b>	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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<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: SA28092)**

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Date Completed: 06/08/2020

# **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	-	-	0.5	-	-
CBDa	0.22	2.2	0.5	-	2
CBDv	-	-	0.5	-	-
Δ9-ΤΗС	1.95	19.5	0.5	-	20
Δ8-ΤΗС	-	-	0.5	-	-
THCa	85.9	859	0.5	-	859
THCv	-	-	0.5	-	-
CBC	-	-	0.5	-	-
CBG	0.0843	0.843	0.5	-	0.843
CBGa	0.321	3.21	0.5	-	3
CBN	-	-	0.5	-	-
TOTAL	88.4	884		-	884
TOTAL THC	77.3	773		-	773
TOTAL CBD	0.193	1.93		-	1.93

# **Cannabinoid Distribution**

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\) \(Delta\) THC \(Delta\) 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:** 06/04/2020 0930 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:** 

Analyst: DJ Instrument: Agilent 6890 None

rpene	Result (µg/g)	Result (%)	
α-Bisabolol	1580	0.158	
Camphene	956	0.0956	
δ-3-Carene	204	0.0204	
β-Caryophyllene	20826	2.08	indight in the state of the sta
Caryophyllene oxide	612	0.0612	\$0557k9z(1x <sup>6</sup> )
p-Cymene	760	0.076	
Eucalyptol	346	0.0346	
Geraniol	-	-	
Guaiol	1544	0.154	Abbreviations: HS - Headspace, GC -
α-Humulene	11100	1.11	Gas Chromatography, MS - Mass
Isopulegol	686	0.0686	Spectrometry, RL - Reporting Limit  This information is provided as a
d-Limonene	18644	1.86	service and makes no claims of efficacy
Linalool	2588	0.259	and/or safety of this product.
β-Myrcene	3972	0.397	Results are applicable only for the sample(s) analyzed and for the specific
cis-Nerolidol	-	-	analysis conducted.
trans-Nerolidol	-	-	This report is for informational purposes only and should not be used t
α-Ocimene	-	-	diagnose, treat, or prevent any
β-Ocimene	2018	0.202	medical-related symptoms.
α-Pinene	3120	0.312	The statements and results herein have not been approved and/or endorsed by
β-Pinene	5048	0.505	the FDA.
α-Terpinene	372	0.0372	
γ-Terpinene	-	-	
Terpinolene	1254	0.125	"-" Not detected above RL.
TOTAL	75630	7.56	Reporting Limit (µ







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#### RESIDUAL SOLVENT PROFILE

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

Analyst: CC Instrument: Agilent 6890 None

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



Solvent	Synonym(s)	Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl Alcohol	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
1 Butanor		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-Dimethoxyethane		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
,	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane	Isanyananal	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
2,3-Dimethylbutane	Diisopropyl	Isopropanol	1 ,	<i>y</i>	
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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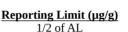
#### PESTICIDES PROFILE

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





"-" 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)	<b>Pesticide</b>	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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Abstract Services





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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

<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

"-" 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 **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

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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