

**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: SA26372)**

**Testing Location:** Order ID: OR8200 **Customer ID: 1648** Sample Type: Primary

**OKC** Matrix: Flower Red Dirt Sungrown Lot Number: 3680 E. I-240 Service Rd. P.O. Box 1399 PS042300 Mass: 5g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number: Date Collected:** 04/28/2020 License: LAAA-4Y4X-Z72Z License: GAAA-41RN-M7KD Not Entered **Date Received:** 04/28/2020

Cultivar (Strain) or Sample Description: Pine Soul **Date Completed:** 05/01/2020

<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
15.6 PASS		0.48 @ 21.8°C	PASS
Cannabinoids (	Гор 3)	<u>(%)</u>	mg/g
THCa		31.2	312
CBGa		2.06	21
Δ9-ΤΗС		0.551	6
TOTAL CB	TOTAL CBD		0.72
TOTAL TH	TOTAL THC		279
TOTAL CANNABINOIDS		34.2	342
Terpenes (Top 5)		<u>(%)</u>	μg/g
d-Limonen	d-Limonene		2342
Linalool	Linalool		757
β-Ocimene	β-Ocimene		632
β-Pinene			
β-Pinene		0.049	486
β-Pinene β-Caryophyllo	ene	0.049 0.048	486 477
•			
β-Caryophyllo		0.048	477 6574

<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: SA26372)**

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# **CANNABINOID (POTENCY) PROFILE**

Analysis Date/Time: 04/29/2020 1112 Method: HPLC/DAD Moisture Content (%): 15.6

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.4839 @ 21.77°C

CannabinoidResult (%)Result (mg/g)Reporting Limit (mg/g)Result (mg/mL)Per Unit (mg/mL)
(9/a) $(mg/g)$ $(mg/mI)$ $(mg)$
CBD 0.0493
CBDa 0.0821 0.821 0.0493 - 0.821
CBDv 0.00625 0.0625 0.0493 - 0.0625
Δ9-THC 0.551 5.51 0.0493 - 6
Δ8-THC 0.0307 0.307 0.0493 - 0.307
THCa 31.2 312 0.0493 - 312
THCv 0.0227 0.227 0.0493 - 0.227
CBC 0.0274 0.274 0.0493 - 0.274
CBG 0.187 1.87 0.0493 - 1.87
CBGa 2.06 20.6 0.0493 - 21
CBN 0.0493
<b>TOTAL</b> 34.2 342 - 342
<b>TOTAL THC</b> 27.9 279 - 279
TOTAL CBD 0.072 0.72 - 0.72

# **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) +  $\Delta 9$ -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:** 05/01/2020

None

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## TERPENOID PROFILE

**Deviations from SOP: Analysis Date/Time:** 04/29/2020 1112 Method: HS/GC/FID (Internal Method-002)

Analyst: DJ **Instrument:** Agilent 6890

<u>'erpene</u>	Result (µg/g)	Result (%)	
Bisabolol	<u>ив/в)</u> 211	0.0211	
amphene	123	0.0123	
3-Carene	-	0.0125	वृत्ते
Caryophyllene	477	0.0477	H C A C A C A C A C A C A C A C A C A C
ryophyllene ide	67	0.00668	3001
Cymene	-	-	
calyptol	-	-	
raniol	100	0.01	
ıaiol	200	0.02	Abbreviations: HS - Headspace, GC
Humulene	299	0.0299	Gas Chromatography, MS - Mass
oulegol	-	-	Spectrometry, RL - Reporting Limit
imonene	2342	0.234	This information is provided as a service and makes no claims of effic
alool	757	0.0757	and/or safety of this product.
⁄lyrcene	337	0.0337	Results are applicable only for the sample(s) analyzed and for the speci
-Nerolidol	-	-	analysis conducted.
ns-Nerolidol	-	-	This report is for informational purposes only and should not be used
Ocimene	106	0.0106	diagnose, treat, or prevent any medical-related symptoms.
Ocimene	632	0.0632	The statements and results herein have
Pinene	352	0.0352	not been approved and/or endorsed b
Pinene	486	0.0486	the FDA.
erpinene	-	-	
Terpinene	-	-	
rpinolene	85	0.00849	"-" Not detected above RL.
<b>DTAL</b>	6574	0.657	Reporting Limit

Kyle W. Felling, Ph.D.





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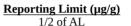
#### **PESTICIDES PROFILE**

Analysis Date/Time: 04/29/2020 1112 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

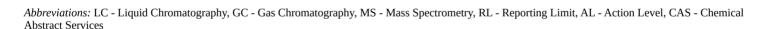
# Color Key RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL



"-" 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)	<b>Pesticide</b>	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: 04/29/2020 1112 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD None

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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### **HEAVY METAL PROFILE**

**Analysis Date/Time:** 04/29/2020 1112 **Method:** ICP/MS **Deviations from SOP:** 

Analyst: CC Instrument: PerkinElmer Elan 9000 Non

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:** 04/29/2020 1112 **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	17604	-
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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