

**SUMMARY OF ANALYSIS (SAMPLE ID: SA28326)**

<b>Testing Location:</b> OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	<b>Customer ID:</b> 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD	<b>Order ID:</b> OR8793 <b>Lot Number:</b> TS060411 <b>Batch Number:</b> Not Entered	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 5g <b>Date Collected:</b> 06/08/2020 <b>Date Received:</b> 06/08/2020
<b>Cultivar (Strain) or Sample Description:</b> Terpwin Station			<b>Date Completed:</b> 06/17/2020

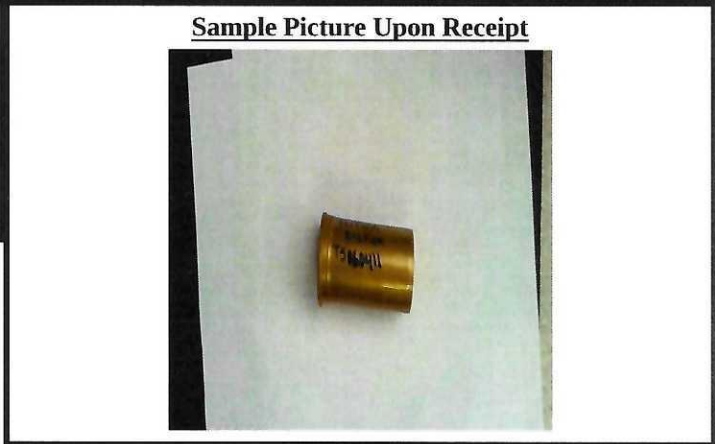
\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed.  
\*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

<b>Moisture Content (%)</b> 12.8	<b>PASS/FAIL</b> PASS	<b>Water Activity (aw)</b> 0.40 @ 23.5°C	<b>PASS/FAIL</b> PASS
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<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	22.2	222
Δ9-THC	1.2	12
CBGa	0.304	3
TOTAL CBD	0.0713	0.713
TOTAL THC	20.7	207
TOTAL CANNABINOIDS	24.1	241

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Myrcene	0.508	5077
β-Caryophyllene	0.222	2221
α-Humulene	0.079	795
Linalool	0.072	723
d-Limonene	0.060	597
TOTAL TERPENES	0.988	9879

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



Scan the QR code to verify results.

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA28326)**

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<b>Cultivar (Strain) or Sample Description:</b> Terpin Station			<b>Date Completed:</b> 06/17/2020

**CANNABINOID (POTENCY) PROFILE**

**Analysis Date/Time:** 06/09/2020 1323      **Method:** HPLC/DAD      **Moisture Content (%):** 12.8  
**Analyst:** WW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.3998 @ 23.47°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	0.0122	0.122	0.0488	-	0.122
CBDa	0.0673	0.673	0.0488	-	0.673
CBDv	0.0128	0.128	0.0488	-	0.128
Δ9-THC	1.2	11.9	0.0488	-	12
Δ8-THC	0.0281	0.281	0.0488	-	0.281
THCa	22.2	222	0.0488	-	222
THCv	0.05	0.5	0.0488	-	0.5
CBC	0.0286	0.286	0.0488	-	0.286
CBG	0.127	1.27	0.0488	-	1.27
CBGa	0.304	3.04	0.0488	-	3
CBN	0.00702	0.0702	0.0488	-	0.0702
<b>TOTAL</b>	<b>24.1</b>	<b>241</b>		<b>-</b>	<b>241</b>
<b>TOTAL THC</b>	<b>20.7</b>	<b>207</b>		<b>-</b>	<b>207</b>
<b>TOTAL CBD</b>	<b>0.0713</b>	<b>0.713</b>		<b>-</b>	<b>0.713</b>

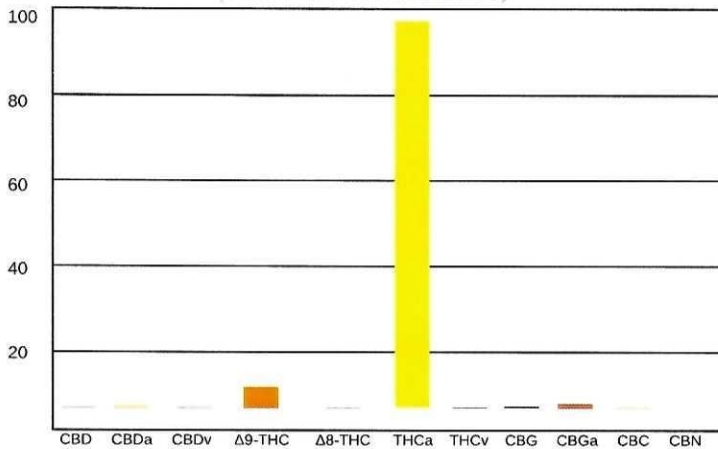


**UNIT MASS (g):** 1

"-" Not detected above RL.

**Cannabinoid Distribution**

(% of Total Cannabinoids)



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) + Δ9-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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<b>Cultivar (Strain) or Sample Description:</b> Terpin Station			<b>Date Completed:</b> 06/17/2020

## TERPENOID PROFILE

**Analysis Date/Time:** 06/09/2020 1323  
**Analyst:** DJ

**Method:** HS/GC/FID (Internal Method-002)  
**Instrument:** Agilent 6890

**Deviations from SOP:**  
None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	-	-
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	2221	0.222
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	795	0.0795
Isopulegol	70	0.00695
d-Limonene	597	0.0597
Linalool	723	0.0723
β-Myrcene	5077	0.508
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	43	0.00432
α-Pinene	70	0.00695
β-Pinene	217	0.0217
α-Terpinene	27	0.00266
γ-Terpinene	-	-
Terpinolene	41	0.00408
<b>TOTAL</b>	<b>9879</b>	<b>0.988</b>



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 1.95**

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**PESTICIDES PROFILE**

**Analysis Date/Time:** 06/09/2020 1323  
**Analyst:** DJ

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

<u>Pesticide</u>	<u>Result (µg/g)</u>	<u>Action Level (µg/g)</u>
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>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>
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:** 06/09/2020 1323  
**Analyst:** DJ

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
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:** 06/09/2020 1323      **Method:** ICP/MS      **Deviations from SOP:**  
**Analyst:** HL      **Instrument:** PerkinElmer Elan 9000      None

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
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:** 06/09/2020 1323      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** DJ      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

"-" not detected above reporting limit

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