

## SUMMARY OF ANALYSIS (SAMPLE ID: SA27780)

<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> OR8647 <b>Lot Number:</b> HBC052702 <b>Batch Number:</b> Not Entered	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 5g <b>Date Collected:</b> 05/28/2020 <b>Date Received:</b> 05/28/2020
<b>Cultivar (Strain) or Sample Description:</b> Headband Cookies			<b>Date Completed:</b> 06/02/2020

\*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> 11.4	<b>PASS/FAIL</b> <b>PASS</b>	<b>Water Activity (aw)</b> 0.36 @ 27.9°C	<b>PASS/FAIL</b> <b>PASS</b>
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<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCa	19.9	199
Δ9-THC	1.56	16
CBGa	0.187	1.87
TOTAL CBD	0.0483	0.483
TOTAL THC	19	190
TOTAL CANNABINOIDS	21.9	219

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	0.681	6815
α-Pinene	0.429	4290
β-Myrcene	0.402	4024
α-Humulene	0.341	3409
d-Limonene	0.136	1360
TOTAL TERPENES	2.35	23537

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



Scan the QR code to verify results.

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## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27780)

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**Cultivar (Strain) or Sample Description:** Headband Cookies **Date Completed:** 06/02/2020

### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 05/29/2020 0956      **Method:** HPLC/DAD      **Moisture Content (%):** 11.4  
**Analyst:** WW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.3564 @ 27.93Å°C

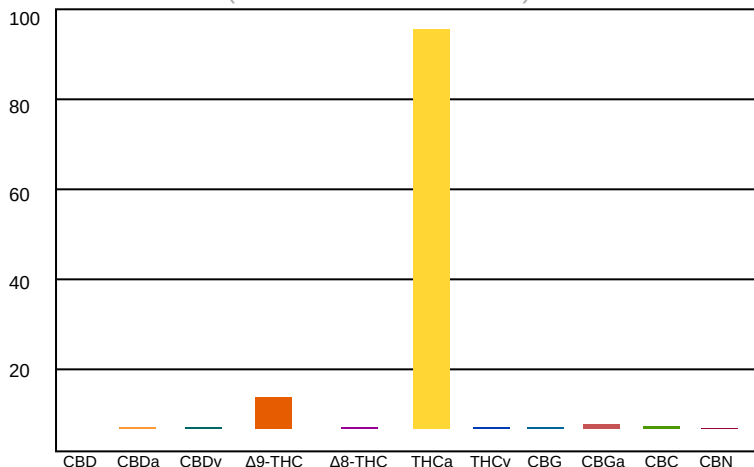
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0504	-	-
CBDa	0.055	0.55	0.0504	-	0.55
CBDv	0.0193	0.193	0.0504	-	0.193
Δ9-THC	1.56	15.6	0.0504	-	16
Δ8-THC	0.0254	0.254	0.0504	-	0.254
THCa	19.9	199	0.0504	-	199
THCv	0.0405	0.405	0.0504	-	0.405
CBC	0.0931	0.931	0.0504	-	0.931
CBG	0.052	0.52	0.0504	-	0.52
CBGa	0.187	1.87	0.0504	-	1.87
CBN	0.0151	0.151	0.0504	-	0.151
<b>TOTAL</b>	<b>21.9</b>	<b>219</b>			<b>219</b>
<b>TOTAL THC</b>	<b>19</b>	<b>190</b>			<b>190</b>
<b>TOTAL CBD</b>	<b>0.0483</b>	<b>0.483</b>			<b>0.483</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> Headband Cookies			<b>Date Completed:</b> 06/02/2020

## TERPENOID PROFILE

**Analysis Date/Time:** 05/29/2020 0956      **Method:** HS/GC/FID (Internal Method-002)      **Deviations from SOP:**  
**Analyst:** DJ      **Instrument:** Agilent 6890      None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	1338	0.134	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	6815	0.681	■
Caryophyllene oxide	632	0.0632	■
p-Cymene	-	-	
Eucalyptol	34	0.00339	
Geraniol	92	0.00918	
Guaiol	-	-	
α-Humulene	3409	0.341	■
Isopulegol	-	-	
d-Limonene	1360	0.136	■
Linalool	1028	0.103	■
β-Myrcene	4024	0.402	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	47	0.00468	
β-Ocimene	186	0.0186	
α-Pinene	4290	0.429	■
β-Pinene	166	0.0166	
α-Terpinene	-	-	
γ-Terpinene	32	0.00323	
Terpinolene	83	0.00831	
<b>TOTAL</b>	<b>23537</b>	<b>2.35</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): 2.02**

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**Cultivar (Strain) or Sample Description:** Headband Cookies **Date Completed:** 06/02/2020

## PESTICIDES PROFILE

**Analysis Date/Time:** 05/29/2020 0956

**Method:** LC/MS/MS

**Deviations from SOP:**

**Analyst:** DJ

**Instrument:** Waters Acquity/TQD

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
Etoazazole (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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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**MYCOTOXIN PROFILE**

**Analysis Date/Time:** 05/29/2020 0956  
**Analyst:** DJ

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

**Deviations from SOP:**  
None

<u>Mycotoxin</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
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:** 05/29/2020 0956  
**Analyst:** CC

**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000

**Deviations from SOP:**  
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:** 05/29/2020 0956      **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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