

## SUMMARY OF ANALYSIS (SAMPLE ID: SA27611)

<b>Testing Location:</b>	<b>Customer ID:</b> 1648	<b>Order ID:</b> OR8591	<b>Sample Type:</b> Primary
OKC	Red Dirt Sungrown	<b>Lot Number:</b>	<b>Matrix:</b> Flower
3680 E. I-240 Service Rd.	P.O. Box 1399	BH052207	<b>Mass:</b> 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	<b>Batch Number:</b>	<b>Date Collected:</b> 05/26/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	<b>Date Received:</b> 05/26/2020
<b>Cultivar (Strain) or Sample Description:</b> Banana Hammock			<b>Date Completed:</b> 05/28/2020

\*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>	<b>PASS/FAIL</b>	<b>Water Activity (aw)</b>	<b>PASS/FAIL</b>
13.8	PASS	0.43 @ 22.0°C	PASS

<b><u>Cannabinoids (Top 3)</u></b>	<b><u>(%)</u></b>	<b><u>mg/g</u></b>
THCa	23.7	237
Δ9-THC	0.441	4
CBGa	0.323	3
TOTAL CBD	0.0484	0.484
TOTAL THC	21.2	212
TOTAL CANNABINOIDS	24.7	247

<b><u>Terpenes (Top 5)</u></b>	<b><u>(%)</u></b>	<b><u>µg/g</u></b>
β-Myrcene	0.467	4670
β-Caryophyllene	0.145	1454
d-Limonene	0.142	1422
Linalool	0.073	734
β-Pinene	0.032	324
TOTAL TERPENES	0.936	9362

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

### Sample Picture Upon Receipt



Scan the QR code to verify results.

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Felling Analytical Services and Technology of Oklahoma City, LLC

*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)



## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27611)

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## CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 05/27/2020 0835 **Method:** HPLC/DAD **Moisture Content (%):** 13.8  
**Analyst:** WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4312 @ 21.96Å°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	-	-	0.0508	-	-
CBDa	0.0551	0.551	0.0508	-	0.551
CBDv	0.0122	0.122	0.0508	-	0.122
Δ9-THC	0.441	4.41	0.0508	-	4
Δ8-THC	0.0378	0.378	0.0508	-	0.378
THCa	23.7	237	0.0508	-	237
THCv	0.0133	0.133	0.0508	-	0.133
CBC	0.0242	0.242	0.0508	-	0.242
CBG	0.15	1.5	0.0508	-	1.5
CBGa	0.323	3.23	0.0508	-	3
CBN	-	-	0.0508	-	-
<b>TOTAL</b>	<b>24.7</b>	<b>247</b>	-	-	<b>247</b>
<b>TOTAL THC</b>	<b>21.2</b>	<b>212</b>	-	-	<b>212</b>
<b>TOTAL CBD</b>	<b>0.0484</b>	<b>0.484</b>	-	-	<b>0.484</b>

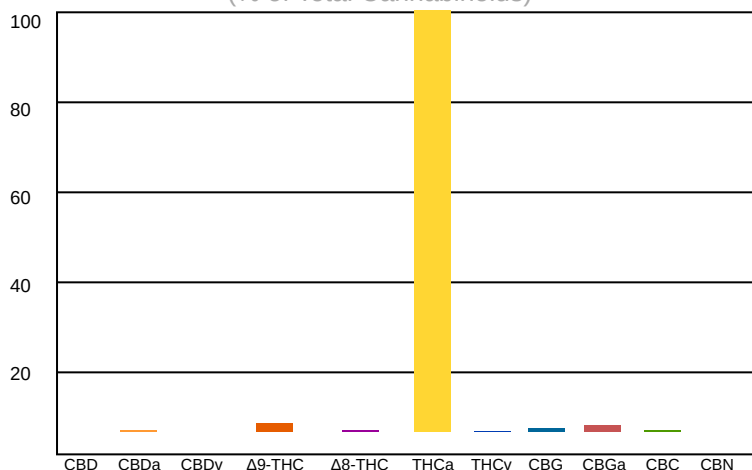


**UNIT MASS (g):** 1

"-" 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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License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	<b>Date Received:</b> 05/26/2020
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## TERPENOID PROFILE

**Analysis Date/Time:** 05/27/2020 0835      **Method:** HS/GC/FID (Internal Method-002)      **Deviations from SOP:**  
**Analyst:** DJ      **Instrument:** Agilent 6890      None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	-	-	
Camphene	65	0.00654	
δ-3-Carene	-	-	
β-Caryophyllene	1454	0.145	■
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	46	0.00457	
Geraniol	95	0.00951	
Guaiol	-	-	
α-Humulene	-	-	
Isopulegol	-	-	
d-Limonene	1422	0.142	■
Linalool	734	0.0734	■
β-Myrcene	4670	0.467	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	64	0.0064	
β-Ocimene	141	0.0141	
α-Pinene	165	0.0165	
β-Pinene	324	0.0324	
α-Terpinene	37	0.00366	
γ-Terpinene	-	-	
Terpinolene	146	0.0146	
<b>TOTAL</b>	<b>9362</b>	<b>0.936</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): 2.03**

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License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	<b>Date Received:</b> 05/26/2020
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### PESTICIDES PROFILE

**Analysis Date/Time:** 05/27/2020 0835

**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
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	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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**MYCOTOXIN PROFILE****Analysis Date/Time:** 05/27/2020 0835**Method:** LC/MS/MS**Deviations from SOP:****Analyst:** DJ**Instrument:** Waters Acquity/TQD

None

<b>Mycotoxin</b>	<b>Result (µg/kg)</b>	<b>Action Level (µg/kg)</b>
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**

<b>RESULT &lt; 1/2 AL</b>
<b>1/2 AL &lt; RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

**Reporting Limit (CFU/g)**

1

"- " not detected above  
reporting limit

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**HEAVY METAL PROFILE****Analysis Date/Time:** 05/27/2020 0835**Method:** ICP/MS**Deviations from SOP:****Analyst:** CC**Instrument:** PerkinElmer Elan 9000

None

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>Action Level (µg/kg)</b>
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**

<b>RESULT &lt; 1/2 AL</b>
<b>1/2 AL &lt; RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

**Reporting Limit (µg/kg)**  
50"- " not detected above  
reporting limit

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## MICROBIOLOGICAL PROFILE

<b>Analysis Date/Time:</b> 05/27/2020 0835	<b>Method:</b> Hardy Diagnostics CompactDry	<b>Deviations from SOP:</b>
<b>Analyst:</b> DJ	<b>Instrument:</b> Thermo Incubator	None

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

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1/2 AL < RESULT < AL
RESULT > AL

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1

"-" not detected above reporting limit

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