

## SUMMARY OF ANALYSIS (SAMPLE ID: SA26002)

<b>Testing Location:</b>	<b>Customer ID:</b> 1648	<b>Order ID:</b> OR8100	<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	PP041703	<b>Mass:</b> 5g
Oklahoma City, OK 73135	Guthrie, OK 73044	<b>Batch Number:</b>	<b>Date Collected:</b> 04/21/2020
License: LAAA-4Y4X-Z72Z	License: GAAA-41RN-M7KD	Not Entered	<b>Date Received:</b> 04/21/2020
<b>Cultivar (Strain) or Sample Description:</b> Pineapple Preserves			<b>Date Completed:</b> 04/27/2020

\*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>
14.4	PASS	0.49 @ 21.5°C	PASS

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	22.5	225
CBGa	0.553	6
Δ9-THC	0.417	4
TOTAL CBD	0.0639	0.639
TOTAL THC	20.1	201
TOTAL CANNABINOIDS	23.6	236

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Myrcene	0.489	4894
cis-Nerolidol	0.447	4472
α-Pinene	0.336	3364
trans-Nerolidol	0.288	2883
d-Limonene	0.153	1528
TOTAL TERPENES	2.07	20664

<u>Contaminants</u>	<u>PASS/FAIL</u>
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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### REPORT OF LABORATORY ANALYSIS

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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: SA26002)

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## CANNABINOID (POTENCY) PROFILE

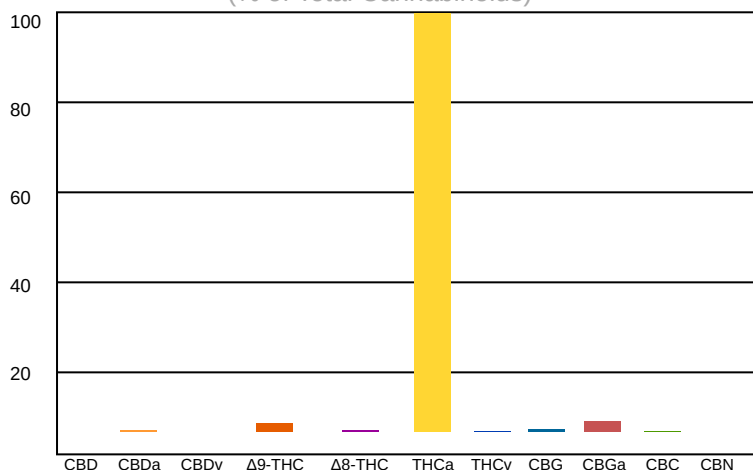
**Analysis Date/Time:** 04/21/2020 1716 **Method:** HPLC/DAD **Moisture Content (%):** 14.4  
**Analyst:** WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4909 @ 21.49Å°C

<b>Cannabinoid</b>	<b>Result (%)</b>	<b>Result (mg/g)</b>	<b>Reporting Limit (mg/g)</b>	<b>Result (mg/mL)</b>	<b>Per Unit (mg)</b>
CBD	-	-	0.0502	-	-
CBDa	0.0728	0.728	0.0502	-	0.728
CBDv	-	-	0.0502	-	-
Δ9-THC	0.417	4.17	0.0502	-	4
Δ8-THC	0.0216	0.216	0.0502	-	0.216
THCa	22.5	225	0.0502	-	225
THCv	0.017	0.17	0.0502	-	0.17
CBC	0.0156	0.156	0.0502	-	0.156
CBG	0.0861	0.861	0.0502	-	0.861
CBGa	0.553	5.53	0.0502	-	6
CBN	-	-	0.0502	-	-
<b>TOTAL</b>	<b>23.6</b>	<b>236</b>	-	-	<b>236</b>
<b>TOTAL THC</b>	<b>20.1</b>	<b>201</b>	-	-	<b>201</b>
<b>TOTAL CBD</b>	<b>0.0639</b>	<b>0.639</b>	-	-	<b>0.639</b>



## Cannabinoid Distribution

(% of Total Cannabinoids)



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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) + 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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## TERPENOID PROFILE

**Analysis Date/Time:** 04/21/2020 1716      **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	66	0.00664	
Camphene	128	0.0128	
δ-3-Carene	-	-	
β-Caryophyllene	471	0.0471	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	83	0.00835	
Guaiol	305	0.0305	
α-Humulene	353	0.0353	
Isopulegol	54	0.00538	
d-Limonene	1528	0.153	
Linalool	223	0.0223	
β-Myrcene	4894	0.489	
cis-Nerolidol	4472	0.447	
trans-Nerolidol	2883	0.288	
α-Ocimene	-	-	
β-Ocimene	371	0.0371	
α-Pinene	3364	0.336	
β-Pinene	1304	0.13	
α-Terpinene	57	0.0057	
γ-Terpinene	-	-	
Terpinolene	108	0.0108	
<b>TOTAL</b>	20664	2.07	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 2.01**

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### PESTICIDES PROFILE

**Analysis Date/Time:** 04/21/2020 1716

**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:** 04/21/2020 1716**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:** 04/21/2020 1716**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**

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

<b>Analysis Date/Time:</b> 04/21/2020 1716	<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>
Aerobic Plate Count, Total	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	10000
Yeast	Absent	10000
Salmonella spp.	Absent	1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit,  
RL - Reporting Limit, AL - Action Level, NT - Not Tested

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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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