

## SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23847)

<b>Testing Location:</b> OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	<b>Customer ID:</b> 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	<b>Order ID:</b> OR2020-7496 <b>Lot Number:</b> Not Entered <b>Batch Number:</b> 144100000015339	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 5g <b>Date Collected:</b> 03/09/2020 <b>Date Received:</b> 03/09/2020
<b>Cultivar (Strain) or Sample Description:</b> Slurrricane			<b>Date Completed:</b> 03/12/2020

\*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> 13.2	<b>PASS/FAIL</b> <b>PASS</b>	<b>Water Activity (aw)</b> 0.45 @ 22.6°C	<b>PASS/FAIL</b> <b>PASS</b>
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<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	30.4	304
CBGa	0.917	9
Δ9-THC	0.321	3
TOTAL CBD	0.0552	0.552
TOTAL THC	27	270
TOTAL CANNABINOIDS	31.9	319

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.364	3642
d-Limonene	0.362	3619
β-Myrcene	0.171	1710
α-Humulene	0.129	1287
β-Pinene	0.056	564
TOTAL TERPENES	1.22	12192

<u>Contaminants</u>	<u>PASS/FAIL</u>
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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*Kyle W. Felling*  
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Laboratory Director



## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-23847)

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**Cultivar (Strain) or Sample Description:** Slurrricane **Date Completed:** 03/12/2020

### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 03/10/2020 1439 **Method:** HPLC/DAD **Moisture Content (%):** 13.2  
**Analyst:** WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4466 @ 22.63Å°C

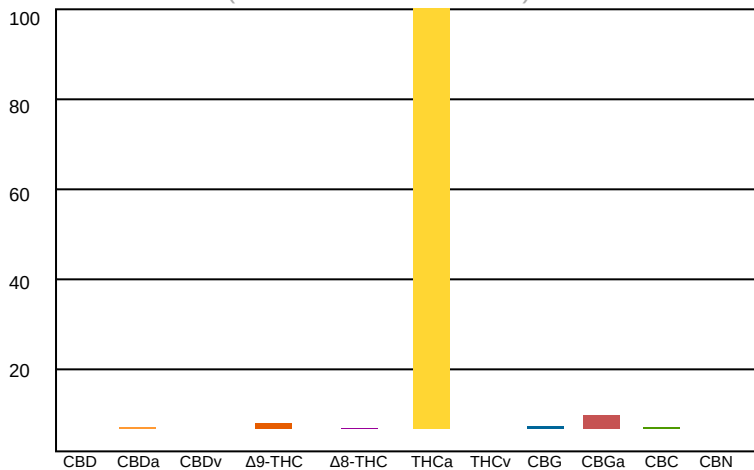
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0507	-	-
CBDa	0.063	0.63	0.0507	-	0.63
CBDv	0.0119	0.119	0.0507	-	0.119
Δ9-THC	0.321	3.21	0.0507	-	3
Δ8-THC	0.0165	0.165	0.0507	-	0.165
THCa	30.4	304	0.0507	-	304
THCv	-	-	0.0507	-	-
CBC	0.0461	0.461	0.0507	-	0.461
CBG	0.117	1.17	0.0507	-	1.17
CBGa	0.917	9.17	0.0507	-	9
CBN	0.00214	0.0214	0.0507	-	0.0214
<b>TOTAL</b>	<b>31.9</b>	<b>319</b>			<b>319</b>
<b>TOTAL THC</b>	<b>27</b>	<b>270</b>			<b>270</b>
<b>TOTAL CBD</b>	<b>0.0552</b>	<b>0.552</b>			<b>0.552</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> Slurrricane			<b>Date Completed:</b> 03/12/2020

**TERPENOID PROFILE**

**Analysis Date/Time:** 03/10/2020 1439      **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	279	0.0279	
Camphene	104	0.0104	
δ-3-Carene	-	-	
β-Caryophyllene	3642	0.364	█
Caryophyllene oxide	109	0.0109	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	8	0.000811	
Guaiol	-	-	
α-Humulene	1287	0.129	█
Isopulegol	-	-	
d-Limonene	3619	0.362	█
Linalool	473	0.0473	
β-Myrcene	1710	0.171	█
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	340	0.034	
β-Pinene	564	0.0564	█
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	57	0.00573	
<b>TOTAL</b>	<b>12192</b>	<b>1.22</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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**Cultivar (Strain) or Sample Description:** Slurrricane **Date Completed:** 03/12/2020

### PESTICIDES PROFILE

**Analysis Date/Time:** 03/10/2020 1439 **Method:** LC/MS/MS **Deviations from SOP:**  
**Analyst:** DJ **Instrument:** Waters Acquity/TQD None

Pesticide	Result (µg/g)	Action Level (µg/g)	Color Key
Abamectin (71751-41-2)	-	0.5	RESULT < 1/2 AL
Azoxystrobin (131860-33-8)	-	0.5	1/2 AL < RESULT < AL
Bifenazate* (149877-41-8)	-	0.5	RESULT > AL
Etoazazole (153233-91-1)	-	0.5	<b>Reporting Limit (µg/g)</b> 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 <i>cis</i> - and <i>trans</i> -permethrin isomers.
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	



**Abbreviations:** LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
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:** 03/10/2020 1439  
**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:** 03/10/2020 1439      **Method:** ICP/MS      **Deviations from SOP:**  
**Analyst:** CC      **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:** 03/10/2020 1439      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** KB      **Instrument:** Thermo Incubator      None

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

**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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