

**Oklahoma City Location** 3680 E I-240 Service Rd Oklahoma City, OK 73135 (405) 595-0344

Tulsa Location 14720 E Admiral Pl, Ste H Tulsa, OK 74108 (918) 340-7139

# **CERTIFICATE OF ANALYSIS**

**Order Type:** Cannabis Order ID: OR2019-5378

Cultivar (Strain): Samoa Kush **Sample Date:** 11/14/2019

Customer ID: 932

Customer Name: Bud Wise Brands

Lab ID: SA2019-17157 **Date Received:** 11/14/2019 **Harvest/Extract Lot: 1** Harvest/Extract Batch: 4

Sample Matrix: Flower **Date Completed:** 11/22/2019

Remarks:

**CANNABINOID (POTENCY) PROFILE** 

**Analysis Date/Time:** 11/18/2019 1515

Analyst: OL

**Method:** 2019-10-18T20:36:50Z

**Instrument:** Agilent 1100

Moisture Content (%): 13.9

Water Activity (aw): -

<b>Cannabinoid</b>	Result	Result	Reporting Limit	<u>Result</u>	Per Unit
	<u>(%)</u>	<u>(mg/g)</u>	<u>(mg/g)</u>	<u>(mg/mL)</u>	<u>(mg)</u>
CBD	-	-	0.0493	-	-
CBDa	0.577	5.77	0.0493	-	6
CBDv	0.347	3.47	0.0493	-	3
Δ9-ΤΗС	1.15	11.5	0.0493	-	11
$\Delta 8$ -THC	-	-	0.0493	-	-
THCa	18.6	186	0.0493	-	186
THCv	-	-	0.0493	-	-
CBC	-	-	0.0493	-	-
CBG	0.0906	0.906	0.0493	-	0.906
CBGa	0.543	5.43	0.0493	-	5
CBN	-	-	0.0493	-	-
TOTAL	21.2	212			212



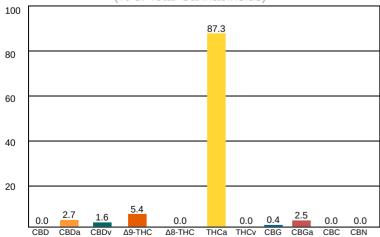
**TOTAL** 21.3 213 213 TOTAL THC 17.5 175 175 **TOTAL CBD** 0.506 5 5

"-" Not detected above RL.

UNIT MASS (g): 1

# **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) +  $\Delta 9$ -THC Total CBD = (CBDa  $\times$  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

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.





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Remarks:

### TERPENOID PROFILE

**Analysis Date/Time:** 11/18/2019 1515

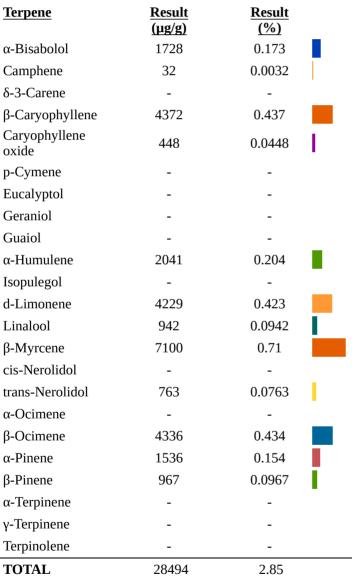
Analyst: OL

Method: HS/GC/FID (Internal Method-002)

**Instrument:** Agilent 6890

**Deviations from SOP:** 

None





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





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**Remarks:** 

### PESTICIDES PROFILE

**Instrument:** Waters Acquity/TQD

**Analysis Date/Time:** 11/18/2019 1515 **Method:** LC/MS/MS and GC/MS **Deviations from SOP:** 

<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
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

Analyst: OL

# Color Key RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL

None

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>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		





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Remarks:

### **MYCOTOXIN PROFILE**

Analysis Date/Time:11/18/2019 1515Method:LC/MS/MSDeviations from SOP:Analyst:OLInstrument:Waters Acquity/TQDNone

Mycotoxin	<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)

"-" not detected above reporting limit





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Remarks:

**HEAVY METAL PROFILE** 

**Analysis Date/Time:** 11/18/2019 1515 **Method:** ICP/MS **Deviations from SOP:** 

Analyst: OL Instrument: PerkinElmer Elan 9000 None

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>Action Level</u> (μg/kg)
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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Remarks:

### MICROBIOLOGICAL PROFILE

Analysis Date/Time: 11/18/2019 1515 Method: Hardy Diagnostics CompactDry
Analyst: OL
Instrument: Thermo Incubator
None

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count, Total	NT	-
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)

"-" not detected above reporting limit

