

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

2019-5378

Cultivar (Strain): Sour Tangie **Sample Date:** 11/14/2019

Customer ID: 932 **Customer Name:** Bud Wise Brands

Lab ID: SA2019-17162

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 1530

0.0678

Analyst: OL

CBN

TOTAL CBD

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

0.678

Instrument: Agilent 1100

Moisture Content (%): 14.1 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result</u>	<u>Result</u>	Reporting Limit	<u>Result</u>	<u>Per Unit</u>
	<u>(%)</u>	(mg/g)	<u>(mg/g)</u>	(mg/mL)	<u>(mg)</u>
CBD	-	-	0.051	-	-
CBDa	0.0773	0.773	0.051	-	0.773
CBDv	-	-	0.051	-	-
Δ9-ΤΗС	1.35	13.5	0.051	-	14
Δ8-ΤΗС	-	-	0.051	-	-
THCa	20.8	208	0.051	-	208
THCv	-	-	0.051	-	-
CBC	-	-	0.051	-	-
CBG	0.111	1.11	0.051	-	1.11
CBGa	0.917	9.17	0.051	-	9



TOTAL THC 19.6 196 - 196 - 196

0.051

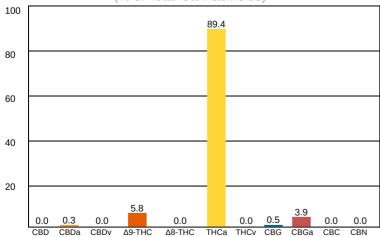
"-" Not detected above RL.

UNIT MASS (g): 1

Cannabinoid Distribution

0.678

(% of Total Cannabinoids)



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.

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) + Δ 9-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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Order Type: Cannabis Order ID: OR2019-5378

Cultivar (Strain): Sour Tangie **Sample Date:** 11/14/2019

Customer ID: 932

Customer Name: Bud Wise Brands

Lab ID: SA2019-17162 **Date Received:** 11/14/2019 **Harvest/Extract Lot: 1** Harvest/Extract Batch: 4

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

Deviations from SOP:

Remarks:

TERPENOID PROFILE

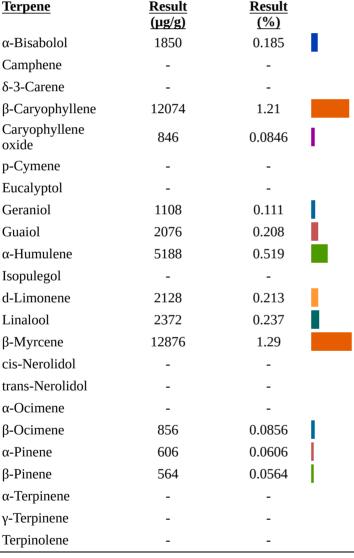
Analysis Date/Time: 11/18/2019 1530

Analyst: OL

Method: HS/GC/FID (Internal Method-002) **Instrument:** Agilent 6890

None

Result	
(0/)	





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

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"-" Not detected above RL.

TOTAL 4.25 42544

Reporting Limit (µg/g): 2





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CERTIFICATE OF ANALYSIS

Order Type: Cannabis Customer ID: 932 Harvest/Extract Lot: 1
Order ID: OR2019-5378 Customer Name: Bud Wise Brands Harvest/Extract Batch: 4

Cultivar (Strain): Sour TangieLab ID: SA2019-17162Sample Matrix: FlowerSample Date: 11/14/2019Date Received: 11/14/2019Date Completed: 11/22/2019

Remarks:

PESTICIDES PROFILE

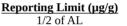
Analysis Date/Time: 11/18/2019 1530 **Method:** LC/MS/MS and GC/MS **Deviations from SOP:**

Analyst: OL Instrument: Waters Acquity/TQD None

<u>Pesticide</u>	Result (μg/g)	Action Level (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

Color Key





"-" 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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CERTIFICATE OF ANALYSIS

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Order ID: OR2019-5378 Customer Name: Bud Wise Brands Harvest/Extract Batch: 4

Cultivar (Strain): Sour TangieLab ID: SA2019-17162Sample Matrix: FlowerSample Date: 11/14/2019Date Received: 11/14/2019Date Completed: 11/22/2019

Remarks:

MYCOTOXIN PROFILE

Analysis Date/Time:11/18/2019 1530Method:LC/MS/MSDeviations from SOP:Analyst:OLInstrument:Waters Acquity/TQDNone

<u>Mycotoxin</u>	Result (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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Remarks:

HEAVY METAL PROFILE

Analysis Date/Time: 11/18/2019 1530 **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 1530 Method: Hardy Diagnostics CompactDry
Analyst: OL
Instrument: Thermo Incubator
None

Bacteria/Microbe	Result (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

