

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: Medical Cannabis **Order ID:** OR2019-3879

Customer ID: 692

Customer Name: Canna Outlaw, LLC

Harvest/Extract Lot: None
Harvest/Extract Batch: None

Cultivar (Strain): Mango Kush Sample Date: 09/19/2019 **Lab ID:** SA2019-12480 **Date Received:** 09/19/2019

Sample Matrix: Flower

Date Completed: 09/28/2019

Remarks:

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 09/20/2019 2035

Method: HPLC/DAD (Internal Method-001)

Moisture Content (%): 13.0 Water Activity (aw): -

Analyst: OL

Instrument: Agilent 1100

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	1.3	-	-
CBDa	0.252	2.52	1.3	-	3
CBDv		-	1.3	- _	· <u>-</u>
Δ9-ΤΗС	0.722	7.22	1.3	-	7
Δ8-ΤΗС	-	-	1.3	-	-
THCa	20.8	208	1.3		208
THCv	-	-	1.3	-	-
CBC	-	-	1.3	-	-
CBG	·	-	1.3	-	-
CBGa	-	-	1.3	-	-
CBN	-	· <u>-</u>	1.3	•	-

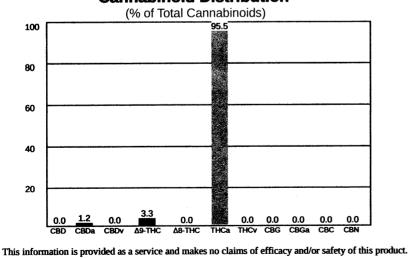


TOTAL	21.8	218	-	218
TOTAL THC	19	190	-	190
TOTAL CBD	0.221	2	-	2

UNIT MASS (g): 1

"-" Not detected above RL.

Cannabinoid Distribution



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

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

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Remarks:

TERPENOID PROFILE

Analysis Date/Time: 09/20/2019 2035

Analyst: OL

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

Instrument: Agilent 6890

Deviations from SOP:

None

<u>Cerpene</u>	Result (µg/g)	Result (%)	
r-Bisabolol	804	0.0804	
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	3296	0.33	
Caryophyllene oxide	-	-	
p-Cymene	596	0.0596	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	724	0.0724	Abbreviations: HS - Headspace, GC -
α-Humulene	948	0.0948	Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Isopulegol	-	-	This information is provided as a
d-Limonene	204	0.0204	service and makes no claims of efficacy and/or safety of this product.
Linalool	-	-	Results are applicable only for the
β-Myrcene	7182	0.718	sample(s) analyzed and for the specific
cis-Nerolidol	162	0.0162	analysis conducted. This report is for informational
trans-Nerolidol	-	-	purposes only and should not be used to diagnose, treat, or prevent any
α-Ocimene	<u>-</u>	-	medical-related symptoms.
β-Ocimene α-Pinene	- 7306	0.731	The statements and results herein have not been approved and/or endorsed by
	7306 1968	0.731	the FDA.
β-Pinene	1500	0.137	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	_	-	"-" Not detected above RL.
TOTAL	23190	2.32	Reporting Limit (µg/g





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PESTICIDES PROFILE

Analysis Date/Time: 09/20/2019 2035

Analyst: OL

Method: LC/MS/MS and GC/MS **Instrument:** Waters Acquity/TQD

Deviations from SOP:

None

Action Level Pesticide Result (PE/E) $(\mu g/g)$ Abamectin (71751-41-2) 0.5 0.5 Azoxystrobin (131860-33-8) Bifenazate* (149877-41-8) 0.5 0.5 Etoxazole (153233-91-1) 0.5 Imazalil (35554-44-0) 0.5 Imidacloprid (138261-41-3) Malathion (121-75-5) 0.5 0.5 Myclobutanil (88671-89-0) 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 1/2 AL < RESULT < AL



1/2 of AL "-" not detected above reporting limit

"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

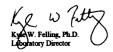
Permethrins measured as the cumulative residue of the cis- and transpermethrin isomers.



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

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

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Remarks:

MYCOTOXIN PROFILE

Analysis Date/Time: 09/20/2019 2035

Analyst: OL

Method: LC/MS/MS

Instrument: Waters Acquity/TQD

Deviations from SOP:

None

<u>Mycotoxin</u>	Result (µg/kg)
Aflatoxin B1	
Aflatoxin B2	
Aflatoxin G1	
Aflatoxin G2	
Ochratoxin A	



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

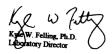
Color Key

1/2 AL < RESULT < AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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Remarks:

HEAVY METAL PROFILE

Analysis Date/Time: 09/20/2019 2035

Method: ICP/MS

Deviations from SOP:

Analyst: OL

maiysis Date Time. 05/20/2015 205.

Instrument: PerkinElmer Elan 9000

None

Heavy Metal

Arsenic (As)
Cadmium (Cd)
Lead (Pb)

Mercury (Hg)

 Result (μg/kg)
 Action Level (μg/kg)

 400
 440

 1000
 200



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key

1/2 AL < RESULT < AL

Reporting Limit (μg/kg)
50

"-" not detected above reporting limit

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KykeW. Felling, Ph.D. Liboratory Director



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Remarks:

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 09/20/2019 2035

Analyst: OL

Method: Hardy Diagnostics CompactDry

Action Level

Instrument: Thermo Incubator

Deviations from SOP:

None

Bacteria/Microbe

Aerobic Plate Count, Total
Escherichia Coli (E. Coli)
Mold
Yeast

Salmonella spp.

(CFU/g) NT

Result



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

Color Key

1/2 AL < RESULT < AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit

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