

## CERTIFICATE OF ANALYSIS

**Order Type:** Medical Cannabis  
**Order ID:** OR2019-4698

**Customer ID:** 1288  
**Customer Name:** Gulab

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

**Cultivar (Strain):** Sour Diesel  
**Sample Date:** 10/18/2019

**Lab ID:** SA2019-14953  
**Date Received:** 10/18/2019

**Sample Matrix:** Flower  
**Date Completed:** 10/25/2019

**Remarks:**

### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 10/22/2019 1038  
**Analyst:** OL

**Method:** 2019-10-18T20:36:50Z  
**Instrument:** Agilent 1100

**Moisture Content (%):** 12.1  
**Water Activity (aw):** -

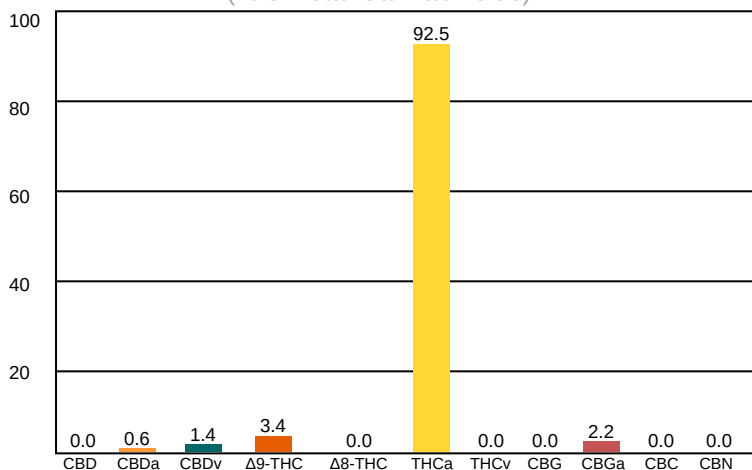
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0498	-	-
CBDa	0.0661	0.661	0.0498	-	0.661
CBDv	0.168	1.68	0.0498	-	1.68
Δ9-THC	0.397	3.97	0.0498	-	4
Δ8-THC	-	-	0.0498	-	-
THCa	10.9	109	0.0498	-	109
THCv	-	-	0.0498	-	-
CBC	-	-	0.0498	-	-
CBG	-	-	0.0498	-	-
CBGa	0.253	2.53	0.0498	-	3
CBN	-	-	0.0498	-	-
<b>TOTAL</b>	<b>11.7</b>	<b>117</b>			<b>117</b>
<b>TOTAL THC</b>	<b>9.92</b>	<b>99.2</b>			<b>99</b>
<b>TOTAL CBD</b>	<b>0.058</b>	<b>0.58</b>			<b>0.58</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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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

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### TERPENOID PROFILE

**Analysis Date/Time:** 10/22/2019 1038  
**Analyst:** OL

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

**Deviations from SOP:**  
None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	1114	0.111	■
Camphene	72	0.0072	■
δ-3-Carene	-	-	
β-Caryophyllene	2442	0.244	■
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	952	0.0952	■
Isopulegol	-	-	
d-Limonene	1750	0.175	■
Linalool	1232	0.123	■
β-Myrcene	4056	0.406	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	490	0.049	■
α-Pinene	5136	0.514	■
β-Pinene	2074	0.207	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
<b>TOTAL</b>	<b>19318</b>	<b>1.93</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**

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### PESTICIDES PROFILE

**Analysis Date/Time:** 10/22/2019 1038  
**Analyst:** OL

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

**Deviations from SOP:**  
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
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

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:** 10/22/2019 1038  
**Analyst:** OL

**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:** 10/22/2019 1038  
**Analyst:** OL

**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000

**Deviations from SOP:**  
None

<u>Heavy Metal</u>	<u>Result</u> ( $\mu\text{g}/\text{kg}$ )	<u>Action Level</u> ( $\mu\text{g}/\text{kg}$ )
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 ( $\mu\text{g}/\text{kg}$ )**  
50

"-" not detected above reporting limit

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**Remarks:**

**MICROBIOLOGICAL PROFILE**

**Analysis Date/Time:** 10/22/2019 1038  
**Analyst:** OL

**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator

**Deviations from SOP:**  
None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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)**  
1

"-" not detected above reporting limit

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