

CERTIFICATE OF ANALYSIS

Order Type: Medical Cannabis
Order ID: OR2019-4840

Customer ID: 598
Customer Name: BCG Farms LLC

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

Cultivar (Strain): Sundae Driver
Sample Date: 10/24/2019

Lab ID: SA2019-15417
Date Received: 10/24/2019

Sample Matrix: Flower
Date Completed: 10/31/2019

Remarks:

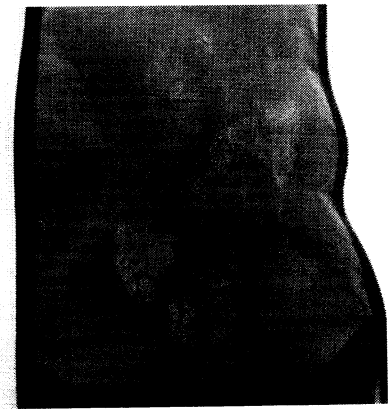
CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 10/29/2019 0133
Analyst: OL

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

Moisture Content (%): 16.6
Water Activity (aw): -

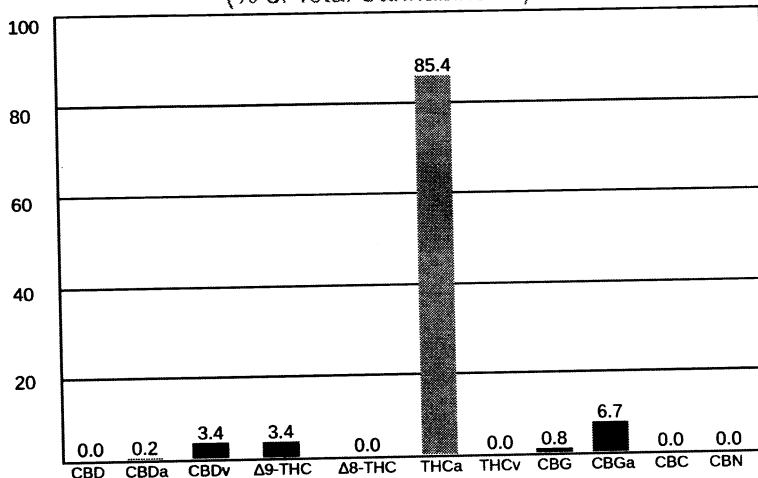
<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	-	-	0.0503	-	-
CBDa	0.0501	0.501	0.0503	-	0.501
CBDv	0.96	9.6	0.0503	-	10
Δ9-THC	0.95	9.5	0.0503	-	9
Δ8-THC	-	-	0.0503	-	-
THCa	23.8	238	0.0503	-	238
THCv	-	-	0.0503	-	-
CBC	-	-	0.0503	-	-
CBG	0.229	2.29	0.0503	-	2
CBGa	1.87	18.7	0.0503	-	19
CBN	-	-	0.0503	-	-
TOTAL	27.9	279			279
TOTAL THC	21.8	218			218
TOTAL CBD	0.0439	0.439			0.439



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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TERPENOID PROFILE

Analysis Date/Time: 10/29/2019 0133
Analyst: OL

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

Deviations from SOP:
None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	1876	0.188	█
Camphene	134	0.0134	█
δ-3-Carene	-	-	
β-Caryophyllene	5836	0.584	█
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	1738	0.174	█
Isopulegol	-	-	
d-Limonene	13848	1.38	█
Linalool	3948	0.395	█
β-Myrcene	1138	0.114	█
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	2400	0.24	█
α-Pinene	1694	0.169	█
β-Pinene	1636	0.164	█
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	



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

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"-" Not detected above RL.

TOTAL 34248

3.42

Reporting Limit (µg/g): 200

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Remarks:

PESTICIDES PROFILE

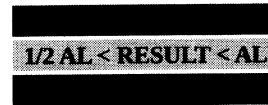
Analysis Date/Time: 10/29/2019 0133
Analyst: OL

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

Deviations from SOP:
None

<u>Pesticide</u>	<u>Result</u> ($\mu\text{g/g}$)	<u>Action Level</u> ($\mu\text{g/g}$)
Abamectin (71751-41-2)		0.5
Azoxystrobin (131860-33-8)		0.5
Bifenazate* (149877-41-8)		0.5
Etoazazole (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



Reporting Limit ($\mu\text{g/g}$)
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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Remarks:

MYCOTOXIN PROFILE

Analysis Date/Time: 10/29/2019 0133
Analyst: OL

Method: LC/MS/MS
Instrument: Waters Acquity/TQD

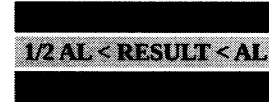
Deviations from SOP:
 None

<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



Reporting Limit (CFU/g)
 1

"-" not detected above reporting limit

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Sample Matrix: Flower
Date Completed: 10/31/2019

Remarks:

HEAVY METAL PROFILE

Analysis Date/Time: 10/29/2019 0133
Analyst: OL

Method: ICP/MS
Instrument: PerkinElmer Elan 9000

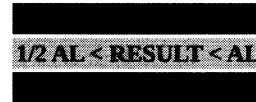
Deviations from SOP:
 None

<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



Reporting Limit (µg/kg)
 50

"-" not detected above reporting limit

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Remarks:

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 10/29/2019 0133
Analyst: OL

Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator

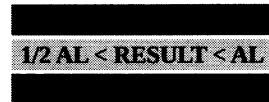
Deviations from SOP:
 None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	NT	-
Escherichia Coli (E. Coli)		1
Mold		10000
Yeast		10000
Salmonella spp.		1



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

Color Key



Reporting Limit (CFU/g)
 1

"-" not detected above reporting limit

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