

## CERTIFICATE OF ANALYSIS

**Order Type:** Medical Cannabis  
**Order ID:** OR2019-2785

**Customer ID:** 598  
**Customer Name:** BCG Farms LLC

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

**Cultivar (Strain):** Watermelon Zkittles  
**Sample Date:** 08/05/2019

**Lab ID:** SA2019-8969  
**Date Received:** 08/05/2019

**Sample Matrix:** Flower  
**Date Completed:**

### Remarks:

### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 08/09/2019 1635  
**Analyst:** OL

**Method:** HPLC/DAD (Internal Method-001)  
**Instrument:** Agilent 1100

**Moisture Content (%):** 8.69  
**Water Activity (aw):** 0.4767 @ 25.05°C

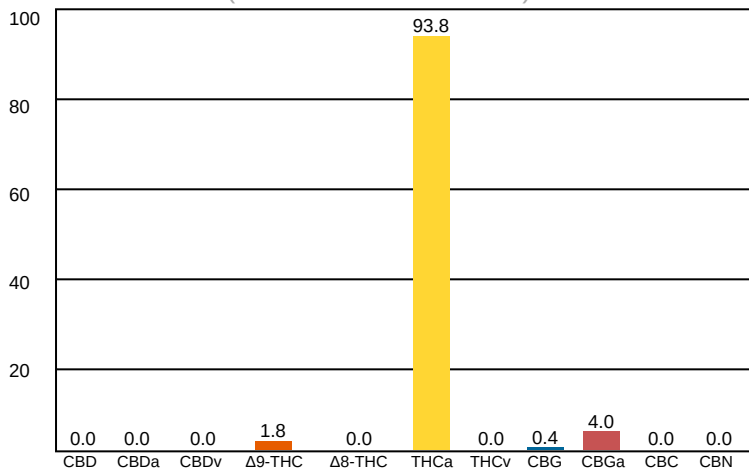
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0492	-	-
CBDa	-	-	0.0492	-	-
CBDv	-	-	0.0492	-	-
Δ9-THC	0.605	6.05	0.0492	-	6
Δ8-THC	-	-	0.0492	-	-
THCa	31.9	319	0.0492	-	319
THCv	-	-	0.0492	-	-
CBC	-	-	0.0492	-	-
CBG	0.132	1.32	0.0492	-	1.32
CBGa	1.36	13.6	0.0492	-	14
CBN	-	-	0.0492	-	-
<b>TOTAL</b>	<b>34</b>	<b>310</b>		<b>-</b>	<b>340</b>
<b>TOTAL THC</b>	<b>28.6</b>	<b>261</b>		<b>-</b>	<b>286</b>
<b>TOTAL CBD</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</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:** 08/09/2019 1635  
**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	-	-
Camphene	104	0.0104
δ-3-Carene	-	-
β-Caryophyllene	432	0.0432
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	171	0.0171
Isopulegol	-	-
d-Limonene	3498	0.35
Linalool	749	0.0749
β-Myrcene	635	0.0635
cis-Nerolidol	261	0.0261
trans-Nerolidol	18	0.00178
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	370	0.037
β-Pinene	-	-
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** 6239 0.624 **Reporting Limit (µg/g): 12.8**

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Laboratory Director

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### PESTICIDES PROFILE

**Analysis Date/Time:** 08/09/2019 1635  
**Analyst:** OL

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

**Deviations from SOP:**  
 None

Pesticide	Result (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.5	Imazalil (35554-44-0)	-	0.2
Acephate (30560-19-1)	-	0.4	Imidacloprid (138261-41-3)	-	0.4
Acequinocyl (57960-19-7)	-	2	Kresoxim-methyl* (143390-89-0)	-	0.4
Acetamiprid (135410-20-7)	-	0.2	Malathion (121-75-5)	-	0.2
Aldicarb (116-06-3)	-	0.4	Metaxyl* (57837-19-1)	-	0.2
Azoxystrobin (131860-33-8)	-	0.2	Methiocarb (2032-65-7)	-	0.2
Bifenazate* (149877-41-8)	-	0.2	Methomyl (16752-77-5)	-	0.4
Bifenthrin* (82657-04-3)	-	0.2	Methyl parathion* (298-0-0)	-	0.2
Boscalid* (188425-85-6)	-	0.4	MGK 264* (113-48-4)	-	0.2
Carbaryl (63-25-2)	-	0.2	Myclobutanil (88671-89-0)	-	0.2
Carbofuran (1563-66-2)	-	0.2	Naled (300-76-5)	-	0.5
Chlorantraniliprole (800008-45-7)	-	0.2	Oxamyl (23135-22-0)	-	1
Chlorfenapyr* (122453-73-0)	-	1	Paclobutrazol* (76738-62-0)	-	0.4
Chlorpyrifos* (2921-88-2)	-	0.2	Permethrins* (52645-53-1)	-	0.2
Clofentezine (74115-24-5)	-	0.2	Phosmet* (732-11-6)	-	0.2
Cyfluthrin* (68359-37-5)	-	1	Piperonyl butoxide* (51-03-6)	-	2
Cypermethrin* (52315-07-8)	-	1	Prallethrin* (2331-36-9)	-	0.2
Daminozide (1596-84-5)	-	1	Propiconazole (60207-90-1))	-	0.4
DDVP (62-73-7)	-	0.1	Propoxur* (114-26-1)	-	0.2
Diazinon* (333-41-5)	-	0.2	Pyrethrins* (8003-34-7)	-	1
Dimethoate (60-51-5)	-	0.2	Pyridaben* (96489-71-3)	-	0.2
Ethoprophos* (13194-48-4)	-	0.2	Spinosad A (168316-95-8)	-	0.2
Etofenprox (80844-07-1)	-	0.4	Spinosad D (168316-95-8)	-	0.2
Etiozazole (153233-91-1)	-	0.2	Spiromesifen (283594-90-1)	-	0.2
Fenoxycarb (72490-01-8)	-	0.2	Spirotetramat (203313-25-1)	-	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.4	Spiroxamine (118134-30-8)	-	0.4
Fipronil* (120068-37-3)	-	0.4	Tebuconazole (80443-41-0)	-	0.4
Flonicamid (158062-67-0)	-	1	Thiacloprid (111988-49-9)	-	0.2
Fludioxinil (131341-86-1)	-	0.4	Thiamethoxam (153719-23-4)	-	0.2
Hexythiazox (78587-05-0)	-	1	Trifloxystrobin* (141517-21-7)	-	0.2



### 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.

Pyrethrin measures as the cumulative residue of pyrethrin I, cinerin I, and jasmolin I.

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

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	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:** 08/09/2019 1635  
**Analyst:** OL

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

**Deviations from SOP:**  
None

<u>Mycotoxin</u>	<u>Result</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
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

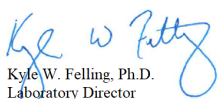
"-" not detected above  
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**Date Completed:**

**Remarks:**

**HEAVY METAL PROFILE**

**Analysis Date/Time:** 08/09/2019 1635  
**Analyst:** OL

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

**Deviations from SOP:**  
None

<u>Heavy Metal</u>	<u>Result</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
Arsenic (As)	-	400
Cadmium (Cd)	-	440
Lead (Pb)	-	100
Mercury (Hg)	-	200



**Abbreviations:** ICP - Inductively-Coupled Plasma, OES - Optical Emission 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

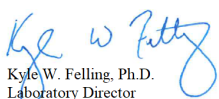
"-" not detected above  
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Kyle W. Felling, Ph.D.  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

**Order Type:** Medical Cannabis  
**Order ID:** OR2019-2967

**Customer ID:** 598  
**Customer Name:** BCG Farms LLC

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

**Cultivar (Strain):** Watermelon Zkittles  
**Sample Date:** 08/13/2019

**Lab ID:** SA2019-9500  
**Date Received:** 08/13/2019

**Sample Matrix:** Flower  
**Date Completed:** 08/20/2019

**Remarks:**

**MICROBIOLOGICAL PROFILE**

**Analysis Date/Time:** 08/20/2019 0800  
**Analyst:** OL

**Method:** Hardy Diagnostics CompactDry  
**Instrument:**

**Deviations from SOP:**  
None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
Aerobic Plate Count, Total	NT	100
Coliforms, Total	Absent	100
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

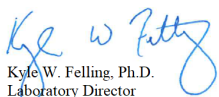
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