

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22628)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 598 BCG Farms LLC 2477 NW Banner Rd Okarche, OK 73762 License: GAAA-VKSW-NEYU	Order ID: OR2020-7143 Lot Number: Not Entered Batch Number: Not Entered	Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 02/14/2020 Date Received: 02/14/2020
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Cultivar (Strain) or Sample Description: Cookie Wreck **Date Completed:** 02/21/2020

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed.

*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

Moisture Content (%) 11.3	PASS/FAIL PASS	Water Activity (aw) 0.46 @ 22.7°C	PASS/FAIL PASS
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Cannabinoids (Top 3)	(%)	mg/g
THCa	25.3	253
CBGa	1.81	18
Δ9-THC	0.692	7
TOTAL CBD	0.0559	0.559
TOTAL THC	22.8	228
TOTAL CANNABINOIDS	27.9	279

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.673	6730
β-Caryophyllene	0.303	3025
α-Humulene	0.163	1632
β-Pinene	0.116	1161
α-Pinene	0.099	994
TOTAL TERPENES	1.67	16712

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Visual Inspection:	PASS



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-22628)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/19/2020 1159 **Method:** HPLC/DAD **Moisture Content (%):** 11.3
Analyst: JI **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4585 @ 22.69Å°C

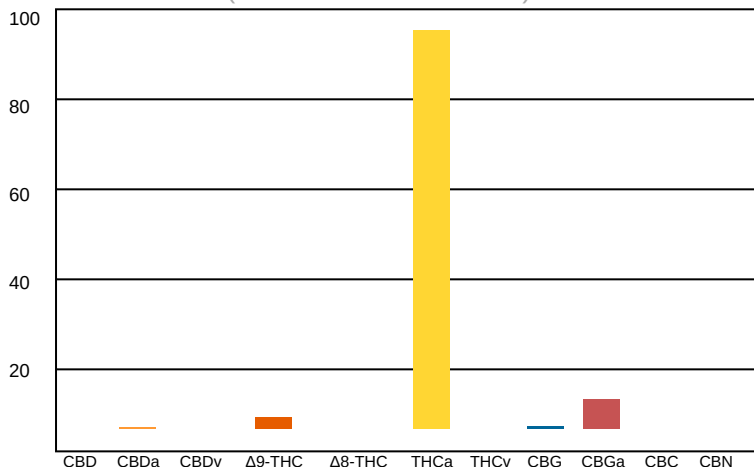
<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	-	-	0.0515	-	-
CBDa	0.0637	0.637	0.0515	-	0.637
CBDv	-	-	0.0515	-	-
Δ9-THC	0.692	6.92	0.0515	-	7
Δ8-THC	-	-	0.0515	-	-
THCa	25.3	253	0.0515	-	253
THCv	-	-	0.0515	-	-
CBC	-	-	0.0515	-	-
CBG	0.126	1.26	0.0515	-	1.26
CBGa	1.81	18.1	0.0515	-	18
CBN	-	-	0.0515	-	-
TOTAL	27.9	279			279
TOTAL THC	22.8	228			228
TOTAL CBD	0.0559	0.559			0.559



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: 02/19/2020 1159 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**
Analyst: JS **Instrument:** Agilent 6890 None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>
α-Bisabolol	461	0.0461
Camphene	193	0.0193
δ-3-Carene	-	-
β-Caryophyllene	3025	0.303
Caryophyllene oxide	75	0.00752
p-Cymene	-	-
Eucalyptol	42	0.00424
Geraniol	7	0.00068
Guaiol	-	-
α-Humulene	1632	0.163
Isopulegol	-	-
d-Limonene	6730	0.673
Linalool	637	0.0637
β-Myrcene	747	0.0747
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	952	0.0952
α-Pinene	994	0.0994
β-Pinene	1161	0.116
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	56	0.00558
TOTAL	16712	1.67



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 2.06

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PESTICIDES PROFILE

Analysis Date/Time: 02/19/2020 1159
Analyst: DJ

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

Deviations from SOP:
None

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

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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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MYCOTOXIN PROFILE

Analysis Date/Time: 02/19/2020 1159
Analyst: DJ

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

Deviations from SOP:
None

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

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HEAVY METAL PROFILE

Analysis Date/Time: 02/19/2020 1159
Analyst: CC

Method: ICP/MS
Instrument: PerkinElmer Elan 9000

Deviations from SOP:
None

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
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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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 02/19/2020 1159 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: KB **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	80	-
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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