

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-22627)

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
Cultivar (Strain) or Sample Description: OGKB 2.1			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 (%) 12.6	PASS/FAIL PASS	Water Activity (aw) 0.45 @ 22.8°C	PASS/FAIL PASS
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Cannabinoids (Top 3)	(%)	mg/g
THCa	31.2	312
CBGa	2.41	24
Δ9-THC	1.03	10.3
TOTAL CBD	0.0792	0.792
TOTAL THC	28.4	284
TOTAL CANNABINOIDS	34.9	349

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.766	7662
β-Caryophyllene	0.611	6114
β-Myrcene	0.461	4609
Linalool	0.299	2986
α-Humulene	0.225	2249
TOTAL TERPENES	2.7	27026

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, Ph.D.
Laboratory Director

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-22627)

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Cultivar (Strain) or Sample Description: OGKB 2.1 **Date Completed:** 02/21/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/19/2020 1151 **Method:** HPLC/DAD **Moisture Content (%):** 12.6
Analyst: JI **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4484 @ 22.8Å°C

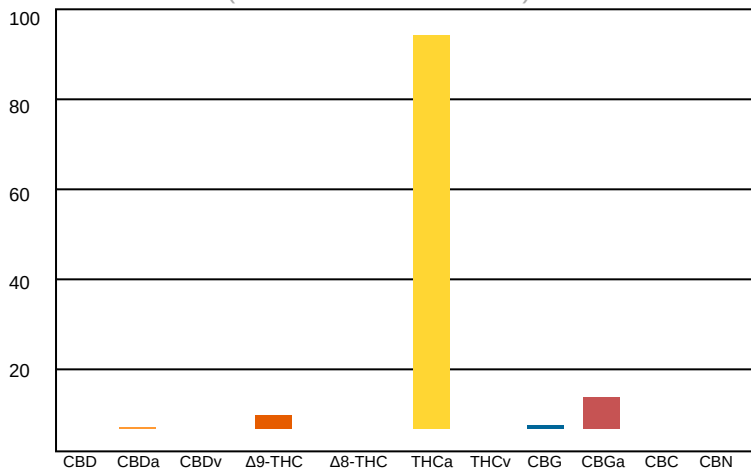
<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	-	-	0.0514	-	-
CBDa	0.0903	0.903	0.0514	-	0.903
CBDv	-	-	0.0514	-	-
Δ9-THC	1.03	10.3	0.0514	-	10.3
Δ8-THC	-	-	0.0514	-	-
THCa	31.2	312	0.0514	-	312
THCv	-	-	0.0514	-	-
CBC	-	-	0.0514	-	-
CBG	0.191	1.91	0.0514	-	1.91
CBGa	2.41	24.1	0.0514	-	24
CBN	-	-	0.0514	-	-
TOTAL	34.9	349		-	349
TOTAL THC	28.4	284		-	284
TOTAL CBD	0.0792	0.792		-	0.792



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 1151 **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	1098	0.11	█
Camphene	174	0.0174	█
δ-3-Carene	-	-	
β-Caryophyllene	6114	0.611	█
Caryophyllene oxide	281	0.0281	█
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	41	0.00411	█
Guaiol	-	-	
α-Humulene	2249	0.225	█
Isopulegol	-	-	
d-Limonene	7662	0.766	█
Linalool	2986	0.299	█
β-Myrcene	4609	0.461	█
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	1	0.000144	
α-Pinene	612	0.0612	█
β-Pinene	1123	0.112	█
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	78	0.00775	█
TOTAL	27026	2.7	



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 1151
Analyst: DJ

Method: LC/MS/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
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 1151
Analyst: DJ

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: 02/19/2020 1151 **Method:** ICP/MS **Deviations from SOP:**
Analyst: CC **Instrument:** PerkinElmer Elan 9000 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 1151 **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	50	-
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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