

Oklahoma City Location 3680 E I-240 Service Rd Oklahoma City, OK 73135 (405) 595-0344 **Tulsa Location** 14720 E Admiral Pl, Ste H Tulsa, OK 74108 (918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA28314)

Testing Location:Customer ID: 710Order ID: OR8814Sample Type: PrimaryOKCSunday ExtractsLot Number:Matrix: Concentrate

3680 E. I-240 Service Rd. 1006 North Oak St Not Entered **Mass:** g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number:** Date Collected: 06/08/2020 License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK RDS604CBB1066 Date Received: 06/08/2020

Cultivar (Strain) or Sample Description: Carol Baskin's Breath

Date Completed: 06/17/2020

^{*}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 (%)	PASS/FAIL	Water Activity (aw)	PASS/FAIL
Not Tested	N/A	Not Tested	N/A
<u>Cannabinoids (To</u>	op 3)	<u>(%)</u>	mg/g
THCa		94.8	948
Δ9-ΤΗС		1.22	12
CBGa		0.278	3
TOTAL CBD		0.134	1.34
TOTAL THC		84.4	844
TOTAL CANNABII	TOTAL CANNABINOIDS		964
Terpenes (Top	<u>5)</u>	<u>(%)</u>	μg/g
β-Caryophyller	ie	0.430	4299
d-Limonene		0.169	1693
Linalool		0.158	1581
α-Bisabolol		0.105	1049
trans-Nerolido	l	0.077	769
TOTAL TERPEN	IES	1.32	13161

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





Scan the QR code to verify results.

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^{*}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.



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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 06/09/2020 1323 Method: HPLC/DAD Moisture Content (%): Analyst: WW Instrument: Agilent 1100 Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.515	-	-
CBDa	0.153	1.53	0.515	-	1.53
CBDv	-	-	0.515	-	-
Δ9-ΤΗС	1.22	12.2	0.515	-	12
Δ8-ΤΗС	-	-	0.515	-	-
THCa	94.8	948	0.515	-	948
THCv	-	-	0.515	-	-
CBC	-	-	0.515	-	-
CBG	-	-	0.515	-	-
CBGa	0.278	2.78	0.515	-	3
CBN	-	-	0.515	-	-
TOTAL	96.4	964		-	964
TOTAL THC	84.4	844		-	844
TOTAL CBD	0.134	1.34		-	1.34

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Data \text{CBD} \text{VBO} \text{THC} \(Data \text{CBG} \text{CBG} \text{CBG} \text{CBG} \text{CBC} \text{CBN}

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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) + $\Delta 9$ -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







Oklahoma City, OK 73135

Arkansas Location 232 S Broadview St Greenbrier, AR 72058 (501) 679-2616

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3680 E. I-240 Service Rd. 1006 North Oak St Not Entered Mass: g

License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK RDS604CBB1066 **Date Received:** 06/08/2020

Batch Number:

Cultivar (Strain) or Sample Description: Carol Baskin's Breath

Guthrie, OK 73044

TERPENOID PROFILE

Analysis Date/Time: 06/09/2020 1323 Method: HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Analyst: DJ **Instrument:** Agilent 6890 None

<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)	
α-Bisabolol	1049	0.105	
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	4299	0.43	Marie V Colorida Ni
Caryophyllene oxide	-	-	
p-Cymene	373	0.0373	
Eucalyptol	-	-	
Geraniol	-	-	_
Guaiol	-	-	Abbreviations: HS - Heads
α-Humulene	-	-	Gas Chromatography, MS Spectrometry, RL - Report
Isopulegol	693	0.0693	This information is provide
d-Limonene	1693	0.169	service and makes no clain
Linalool	1581	0.158	and/or safety of this produc
β-Myrcene	501	0.0501	Results are applicable only sample(s) analyzed and for
cis-Nerolidol	-	-	analysis conducted.
trans-Nerolidol	769	0.0769	This report is for informati purposes only and should i
α-Ocimene	408	0.0408	diagnose, treat, or prevent
β-Ocimene	447	0.0447	medical-related symptoms. The statements and results
α-Pinene	243	0.0243	not been approved and/or e
β-Pinene	363	0.0363	the FDA.
α-Terpinene	268	0.0268	
γ-Terpinene	-	-	
Terpinolene	472	0.0472	"-" Not detected above RL
TOTAL	13161	1.32	Reportin



lspace, GC -S - Mass rting Limit

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ng Limit (μg/g): 20.6





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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 06/09/2020 1323 Method: USP <467> Deviations from SOP:

Analyst: CC Instrument: Agilent 6890 None

Solvent	<u>Result</u> (μg/g)	Action Level (μg/g)
Acetone (67-64-1)	-	1000
Benzene (71-43-2)	-	2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-83-2)	-	60
2,3-Dimethylbutane (79-29-8)	-	60
Ethyl benzene (100-41-4)	-	430
n-Heptane (142-82-5)	-	1000
n-Hexane (110-54-3)	-	60
Isobutane (75-28-5)	-	1000
Isopropanol (67-63-0)	-	1000
2-Methylbutane (78-78-4)	-	1000
2-Methylpentane (107-83-5)	-	60
3-Methylpentane (96-10-0)	-	60
n-Pentane (109-66-0)	-	1000
n-Propane (74-98-6)	-	1000
Toluene (108-88-3)	-	180
o-Xylene (95-47-6)	-	430
m,p-Xylene (108-38-3 or 106-42-3)	-	430
Xylenes* (1330-20-7)	-	430

DMSO

Color Key



Reporting Limit (μg/g)
1/2 of AL

"-" not detected above reporting limit

"*" - o,m,p-Xylene and Ethylbenzene



Solvent	Synonym(s)	Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
	Alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanol	sec-Butyl alcohol	Ethyl benzene	Phenylethane	2-Methylpentane	Isohexane
2-Butanone	Methyl ethyl ketone, MEK	Ethylene glycol	1,2-Ethanediol	1-Pentanol	n-Amyl alcohol
12 D: d d		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
2,3-Dimethylbutane	Neohexane	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
2,3-Dimethylbutane	Diisopropyl	1 1	1 ,	3	
N,N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level CAS-Chemical Abstract Services

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Dimethysufoxide



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PESTICIDES PROFILE

Analysis Date/Time: 06/09/2020 1323 Method: LC/MS/MS Deviations from SOP:

Analyst: HL Instrument: Waters Acquity/TQD None

Pesticide	Result (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>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	Pesticide Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethonrophos	Prophos	Phosmet	Imidan		







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MYCOTOXIN PROFILE

Analysis Date/Time: 06/09/2020 1323 Method: LC/MS/MS Deviations from SOP:

Analyst: HL Instrument: Waters Acquity/TQD None

<u>Mycotoxin</u>	<u>Result</u> (µg/kg)	Action Level (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: 06/09/2020 1323 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 Non

Heavy Metal	<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

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: 06/09/2020 1323 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**

Analyst: DJ Instrument: Thermo Incubator Non

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10000
Salmonella spp.	Absent	1
Staphylococcus Aureus	Absent	1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested Absent - Not Detected Above RL, Present - Detected Above RL

Color Key

RESULT < 1/2 AL

1/2 AL < RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)

"-" not detected above reporting limit



