

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: SA27625)

Testing Location:	Customer ID: 710	Order ID: OR8593	Sample Type: Primary
OKC	Sunday Extracts	Lot Number:	Matrix: Concentrate

3680 E. I-240 Service Rd. 1006 North Oak St Not Entered Mass: 2g

Oklahoma City, OK 73135 Guthrie, OK 73044 **Batch Number:** Date Collected: 05/26/2020 License: LAAA-4Y4X-Z72Z License: PAAA-NYIN-5SXK RDS518GGVOG554 Date Received: 05/26/2020

Cultivar (Strain) or Sample Description: Gorilla Glue x Venice OG **Date Completed:** 05/29/2020

^{*}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 (T</u>	op 3)	<u>(%)</u>	mg/g
THCa		85	850
Δ9-ΤΗС		1.77	18
CBGa		0.502	5
TOTAL CBD)	0.129	1.29
TOTAL THO		76.4	764
TOTAL CANNABI	NOIDS	87.7	877
Terpenes (Top	<u>5)</u>	<u>(%)</u>	μg/g
β-Caryophylle	ne	1.436	14357
α-Humulene		0.498	4984
d-Limonene	d-Limonene		4225
β-Myrcene		0.306	3064
β-Pinene	β-Pinene		1507
TOTAL TERPE	NES	3.53	35307

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: 05/27/2020 1102Method: HPLC/DADMoisture Content (%): -Analyst: WWInstrument: Agilent 1100Water Activity (aw): -

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.515	-	-
CBDa	0.147	1.47	0.515	-	1.47
CBDv	-	-	0.515	-	-
Δ9-ΤΗС	1.77	17.7	0.515	-	18
Δ8-ΤΗС	-	-	0.515	-	-
THCa	85	850	0.515	-	850
THCv	-	-	0.515	-	-
CBC	0.0908	0.908	0.515	-	0.908
CBG	0.138	1.38	0.515	-	1.38
CBGa	0.502	5.02	0.515	-	5
CBN	-	-	0.515	-	-
TOTAL	87.7	877		-	877
TOTAL THC	76.4	764		-	764
TOTAL CBD	0.129	1.29		-	1.29

Cannabinoid Distribution

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\) THC \(Delta\) \(Delta\) THC THC THC CBG CBG CBC 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







Cultivar (Strain) or Sample Description: Gorilla Glue x Venice OG

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

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TERPENOID PROFILE

Analysis Date/Time: 05/27/2020 1102 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**

Analyst: DJ Instrument: Agilent 6890 None

<u>Terpene</u>	Result (μg/g)	Result (%)	
α-Bisabolol	1233	0.123	
Camphene	579	0.0579	
δ-3-Carene	-	-	
β-Caryophyllene	14357	1.44	on Section 1997 of Nation Co. 405 States Co. 405 St
Caryophyllene oxide	410	0.041	.cd
p-Cymene	439	0.0439	
Eucalyptol	353	0.0353	
Geraniol	893	0.0893	
Guaiol	-	-	Abbreviations: HS - Headspace, GC -
α-Humulene	4984	0.498	Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
Isopulegol	-	-	This information is provided as a
d-Limonene	4225	0.422	service and makes no claims of efficacy
Linalool	-	-	and/or safety of this product. Results are applicable only for the
β-Myrcene	3064	0.306	sample(s) analyzed and for the specific
cis-Nerolidol	-	-	analysis conducted.
trans-Nerolidol	-	-	This report is for informational purposes only and should not be used to
α-Ocimene	476	0.0476	diagnose, treat, or prevent any
β-Ocimene	464	0.0464	medical-related symptoms.
α-Pinene	1231	0.123	The statements and results herein have not been approved and/or endorsed by
β-Pinene	1507	0.151	the FDA.
α-Terpinene	359	0.0359	
γ-Terpinene	-	-	
Terpinolene	734	0.0734	"-" Not detected above RL.
TOTAL	35307	3.53	Reporting Limit (μg/g): 20







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RESIDUAL SOLVENT PROFILE

Analysis Date/Time: 05/27/2020 1102 Method: USP <467> **Deviations from SOP:**

Analyst: CC **Instrument:** Agilent 6890

<u>Result</u> (μg/g)	Action Level (μg/g)
-	1000
-	2
-	1000
-	60
-	60
-	430
-	1000
-	60
-	1000
-	1000
-	1000
-	60
-	60
-	1000
-	1000
-	180
-	430
-	430
-	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 ,	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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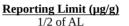
PESTICIDES PROFILE

Analysis Date/Time: 05/27/2020 1102 Method: LC/MS/MS Deviations from SOP:

Analyst: DJ Instrument: Waters Acquity/TQD 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
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





"-" 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

Pesticide	Synonym(s)	<u>Pesticide</u>	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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MYCOTOXIN PROFILE

Analysis Date/Time: 05/27/2020 1102 **Method:** LC/MS/MS **Deviations from SOP:**

Analyst: DJ Instrument: Waters Acquity/TQD 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)

"-" not detected above reporting limit

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HEAVY METAL PROFILE

Analysis Date/Time: 05/27/2020 1102 **Method:** ICP/MS **Deviations from SOP:**

Analyst: CC Instrument: PerkinElmer Elan 9000 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

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: 05/27/2020 1102 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: DJ Instrument: Thermo Incubator None

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)

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