

**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: SA2020-23848)**

**Testing Location:** Order ID: OR2020-7496 Customer ID: 1823 Sample Type: Primary

**OKC** Matrix: Flower Altum Group Lot Number: 3680 E. I-240 Service Rd. 22900 W Skelly Rd Not Entered Mass: 5g

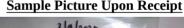
Oklahoma City, OK 73135 Haskell, OK 74436 **Batch Number: Date Collected:** 03/09/2020 License: GAAA-4K7V-ISMN 144100000015338 **Date Received:** 03/09/2020

Cultivar (Strain) or Sample Description: Trifi Cookies **Date Completed:** 03/12/2020

<sup>\*</sup>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.

<b>Moisture Content (%)</b>	PASS/FAIL	Water Activity (aw)	PASS/FAIL		
12.0	12.0 PASS		PASS		
	E D)	(0/)	.1.		
<u>Cannabinoids (T</u>	<u>(10p 3)</u>	<u>(%)</u>	mg/g		
THCa		26.6	266		
CBGa		0.733	7		
Δ9-ΤΗС		0.232	2		
TOTAL CBI	D	0.0973	0.973		
TOTAL TH	G	23.5	235		
TOTAL CANNAB	INOIDS	27.8	278		
<u>Terpenes (Top</u>	o 5)	(%)	μg/g		
β-Caryophylle	β-Caryophyllene		3316		
d-Limonene	d-Limonene		2219		
α-Humulen	α-Humulene		1221		
Linalool		0.072	721		
Guaiol	Guaiol		Guaiol		691
TOTAL TERPE	NES	0.949	9489		
Contaminants	PASS/FAIL	Sample Picture Une	on Receint		

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







Scan the QR code to verify results.

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<sup>\*</sup>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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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-23848)**

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Date Completed: 03/12/2020

# **CANNABINOID (POTENCY) PROFILE**

Analysis Date/Time: 03/10/2020 1439 Method: HPLC/DAD Moisture Content (%): 12

Analyst: WW Instrument: Agilent 1100 Water Activity (aw): 0.3821 @ 22.32°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)	3/9/2020
CBD	0.0201	0.201	0.0514	-	0.201	THIFI COOKIES
CBDa	0.0881	0.881	0.0514	-	0.881	TC
CBDv	0.00514	0.0514	0.0514	-	0.0514	5.39
Δ9-ΤΗС	0.232	2.32	0.0514	-	2	יבות עם
Δ8-ΤΗС	0.0124	0.124	0.0514	-	0.124	FIB HA
THCa	26.6	266	0.0514	-	266	A STATE OF THE STA
THCv	0.0283	0.283	0.0514	-	0.283	- CAR ( CAR
CBC	0.0321	0.321	0.0514	-	0.321	
CBG	0.0794	0.794	0.0514	-	0.794	THE REPORT OF THE PARTY OF THE
CBGa	0.733	7.33	0.0514	-	7	
CBN	0.00265	0.0265	0.0514	-	0.0265	
TOTAL	27.8	278		-	278	UNIT MASS (g): 1
TOTAL THC	23.5	235		-	235	"-" Not detected above RL.
TOTAL CBD	0.0973	0.973		-	0.973	

# **Cannabinoid Distribution**

(% of Total Cannabinoids)

80

60

40

CBD CBDa CBDv \(Delta\) \(Delta\)-THC \(Delta\)-THC THCa THCv CBG CBGa 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







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### TERPENOID PROFILE

Analysis Date/Time: 03/10/2020 1439 Method: HS/GC/FID (Internal Method-002) Deviations from SOP:

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

abolol 399 0.0399 hene 49 0.00487 arene yophyllene 3316 0.332 phyllene 120 0.012 nene yoptol iol 691 0.0691 nulene 1221 0.122 legol yone 2219 0.222 yolol 721 0.0721 recee 253 0.0253 recee 253 0.0253 recee 253 0.0253 received Nerolidol where 160 0.016 mene yone 160 0.016 mene 287 0.0287 received yone 287 0.0287 received yone 287 0.00526 received yone 287 0.00526 received yone 287 0.00526 received yone 287 0.00526	<u>ene</u>	<u>Result</u> (μg/g)	Result (%)	3/9/2020
amphene 49 0.00487   3-Carene	-Bisabolol		<del></del>	THE COOKIES
Sa-Carene	Camphene	49	0.00487	TC
Caryophyllene oxide  De-Cymene  D	•	-	-	5.39
p-Cymene	B-Caryophyllene	3316	0.332	CIR HZ
Eucalyptol	Caryophyllene oxide	120	0.012	
Geraniol	p-Cymene	-	-	
Guaiol6910.0691Abbreviations: HS - Headspace, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting LimitIsopulegolThis information is provided as a service and makes no claims of efficacy and/or safety of this product.Linalool7210.0721Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.Cis-NerolidolThis report is for informational 	Eucalyptol	-	-	
α-Humulene12210.122Gas Chromatography, MS - Mass Spectrometry, RL - Reporting LimitIsopulegolThis information is provided as a service and makes no claims of efficacy and/or safety of this product.d-Limonene22190.222service and makes no claims of efficacy and/or safety of this product.Linalool7210.0721Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.Cis-NerolidolThis report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.β-Ocimenediagnose, treat, or prevent any medical-related symptoms.α-Pinene1600.016not been approved and/or endorsed by the FDA.α-Pinene2870.0287not been approved and/or endorsed by the FDA.α-Terpineneγ-TerpineneTerpinolene530.00526"-" Not detected above RL.	Geraniol	-	-	
α-Humulene12210.122Gas Chromatography, MS - Mass Spectrometry, RL - Reporting LimitIsopulegolThis information is provided as a service and makes no claims of efficacy and/or safety of this product.d-Limonene22190.222Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.Linalool7210.0721Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.Cis-Nerolidoltrans-Nerolidolα-Ocimeneβ-Ocimeneα-Pinene1600.016nedical-related symptoms.β-Pinene2870.0287not been approved and/or endorsed by the FDA.α-Terpineneγ-TerpineneTerpinolene530.00526"-" Not detected above RL.	Guaiol	691	0.0691	Abbreviations: HS - Headspace, GC -
Isopulegol d-Limonene 2219 0.222 Linalool 721 0.0721  β-Myrcene 253 0.0253 cis-Nerolidol rans-Nerolidol rans-Nerolidol α-Ocimene β-Ocimene α-Pinene 160 0.016 β-Pinene 287 0.0287  This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.  α-Terpinene	α-Humulene	1221	0.122	Gas Chromatography, MS - Mass
d-Limonene 2219 0.222 service and makes no claims of efficace and/or safety of this product.  Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.  This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.  The statements and results herein have not been approved and/or endorsed by the FDA.  Terpinene  Terpinolene 53 0.00526 "-" Not detected above RL.	Isopulegol	-	-	
Linatool7210.0721β-Myrcene2530.0253Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.cis-NerolidolThis report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. $\alpha$ -Ocimenemedical-related symptoms. $\alpha$ -Pinene1600.016not been approved and/or endorsed by the FDA. $\alpha$ -Terpinene $\alpha$ -TerpineneTerpinolene530.00526"-" Not detected above RL.	d-Limonene	2219	0.222	service and makes no claims of efficacy
β-Myrcene253 $0.0253$ sample(s) analyzed and for the specific analysis conducted.cis-NerolidolThis report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. $\alpha$ -OcimeneThe statements and results herein have not been approved and/or endorsed by the FDA. $\alpha$ -Pinene287 $0.0287$ The statements and results herein have not been approved and/or endorsed by the FDA. $\alpha$ -Terpinene $\alpha$ -TerpineneTerpinolene53 $0.00526$ "-" Not detected above RL.	Linalool	721	0.0721	
cis-Nerolidol This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. $\alpha$ -Ocimene The statements and results herein have a not been approved and/or endorsed by the FDA. $\alpha$ -Terpinene Terpinene Terpinolene 53 0.00526 "-" Not detected above RL.	β-Myrcene	253	0.0253	
trans-Nerolidol	cis-Nerolidol	-	-	analysis conducted.
β-Ocimene $         -$	trans-Nerolidol	-	-	
$\alpha$ -Pinene 160 0.016 The statements and results herein have not been approved and/or endorsed by the FDA. $\alpha$ -Terpinene $\gamma$ -Terpinene Terpinolene 53 0.00526 The statements and results herein have not been approved and/or endorsed by the FDA. $\alpha$ -Terpinene	α-Ocimene	-	-	
$\alpha$ -Pinene 160 0.016 not been approved and/or endorsed by the FDA. $\alpha$ -Pinene 287 0.0287 the FDA. $\alpha$ -Terpinene $\gamma$ -Terpinene $\Gamma$ -Terpinolene 53 0.00526 "-" Not detected above RL.	β-Ocimene	-	-	
β-Pinene 287 0.0287 α-Terpinene γ-Terpinene Terpinolene 53 0.00526 "-" Not detected above RL.	α-Pinene	160	0.016	
γ-Terpinene Terpinolene 53 0.00526 "-" Not detected above RL.	β-Pinene	287	0.0287	the FDA.
Terpinolene 53 0.00526 "-" Not detected above RL.	α-Terpinene	-	-	
1 Not detected above Inc.	γ-Terpinene	-	-	
	Terpinolene	53	0.00526	"-" Not detected above RL.
	TOTAL	9489	0.949	Reporting Limit (μ







3680 E. I-240 Service Rd.

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

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Mass: 5g

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Not Entered

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#### PESTICIDES PROFILE

**Analysis Date/Time:** 03/10/2020 1439 Method: LC/MS/MS **Deviations from SOP:** 

Analyst: DJ **Instrument:** Waters Acquity/TQD None

<u>Pesticide</u>	<u>Result</u> (μg/g)	Action Level (µg/g)	Color Key
Abamectin (71751-41-2)	(P8/8/	0.5	RESULT < 1/2 AL
Azoxystrobin (131860-33-8)	_	0.5	1/2 AL < RESULT < AL
Bifenazate* (149877-41-8)	_	0.5	RESULT > AL
Etoxazole (153233-91-1)	-	0.5	Reporting Limit (μg/g)
Imazalil (35554-44-0)	-	0.5	<u>керогинд Ении (µg/g)</u> 1/2 of AL
Imidacloprid (138261-41-3)	-	0.5	
Malathion (121-75-5)	-	0.5	"-" not detected above reporting limit
Myclobutanil (88671-89-0)	-	0.5	reporting mint
Permethrins* (52645-53-1)	-	0.5	"*" analyzed by GC/MS
Spinosad A (168316-95-8)	-	0.5	(all others analyzed
Spinosad D (168316-95-8)	-	0.5	by LC/MS/MS)
Spiromesifen (283594-90-1)	_	0.5	Permethrins measured as
Spirotetramat (203313-25-1)	-	0.5	the cumulative residue of
Tebuconazole (80443-41-0)	-	0.5	the <i>cis</i> - and <i>trans</i> - permethrin isomers.

22900 W Skelly Rd



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)	<u>Pesticide</u>	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: 03/10/2020 1439 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:** 03/10/2020 1439 Method: ICP/MS **Deviations from SOP:** 

**Analyst:** CC **Instrument:** PerkinElmer Elan 9000 None

22900 W Skelly Rd

<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



Mass: 5g

Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key

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:** 03/10/2020 1439 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: KB Instrument: Thermo Incubator None

Bacteria/Microbe Result **Action Level** (CFU/g) (CFU/g) Aerobic Plate Count, Total Absent Escherichia Coli (E. Coli) 1 Mold 10000 **Absent** 10000 Yeast Salmonella spp. 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)

"-" not detected above reporting limit

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