

510 N Sheridan Road Suite D | Tulsa, OK 74115 | (918) 520-3441 | OMMA #: LAAA-0095-HXSF

Report of Analysis

Report Status: Final

-8481

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Client Name: Heart and Soil, LLC

1004 Hwy 54 Address:

Guymon, OK 73942 Strain: Twizzlers

Phone: 806-782-9938 Matrix: Flower - Cured

GAAA-RC4Q-LIMD Sample OMMA #: 1A40E01000147C1000004051 08/30/2023 Batch #:

Lab ID:

Collected:

Sample Weight: Harvest/

12/04/2023 Received: 12/05/2023 **Production:**

Special Notes:



Summary of Results			
Potency Profile			
Cannabinoid	Weight %		
CBDV	ND		
CBDA	ND		
CBN	ND		
CBD	ND		
CBGA	1.83		
CBG	0.208		
THCV	ND		
Δ9-THC	1.53		
Δ8-THC	ND		
THCA	26.0		
CBC	ND		
Total THC Delta-9(%)	24.4		
Total THC Delta-9(mg/g)	244		
Total Cannabinoids (%)	29.6		
Total Cannabinoids (mg/g)	296		

Microbiological Profile		
All Results	Pass	

Heavy Metals Screening		
All Results	Pass	

Moisture Content			
All Results	13.06 %	Pass	

Terpene Profile			
<u>Terpene</u>	Result %		
α-Pinene	0.249		
Camphene	< LOQ		
Myrcene	1.41		
a-Terpinene	< LOQ		
β-pinene	0.0946		
3-Carene	< LOQ		
Ocimene	0.174		
Delta-limonene	0.121		
p-Cymene	0.0432		
Eucalyptol	< LOQ		
γ-Terpinene	< LOQ		
Terpinolene	< LOQ		
Linalool	0.0779		
Isopulegol	0.0484		
Geraniol	0.0468		
β-Caryophyllene	0.585		
Humulene	0.236		
cis-Nerolidol	0.0682		
trans-Nerolidol	0.344		
Nerolidol	0.412		
Guaiol	0.136		
Caryophillene oxide	0.0555		
α-Bisabolol	0.169		
Total Terpene %	3.99		

Pesticide Screening		
All Results Pass		

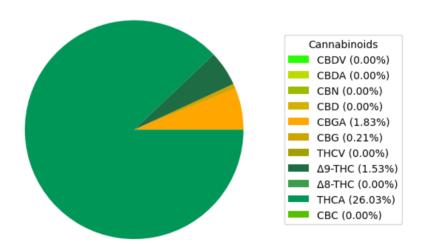
Filth and Foreign Materials Screening		
All Results	Pass	

Potency

Date Completed: 12/08/2023 Instrument: Agilent 1100 (HPLC) - Agilent (DAD) Lab Tech: Andrea Burrows

Analyte	Weight (%)	Result (mg/g)	LOQ (mg/g)
CBDV	ND	ND	0.650
CBDA	ND	ND	0.650
CBN	ND	ND	0.650
CBD	ND	ND	0.650
CBGA	1.83	18.3	0.650
CBG	0.208	2.08	0.650
THCV	ND	ND	0.650
Δ9-ΤΗС	1.53	15.3	0.650
Δ8-ΤΗС	ND	ND	0.650
THCA	26.0	260	0.650
CBC	ND	ND	0.650
Total CBD	ND	ND	
Total THC	24.4	244	

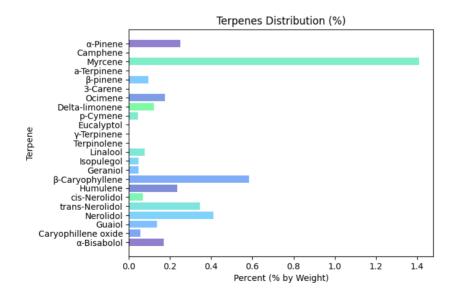
Cannabinoid Distribution (%)



Terpenoid

Date Completed: 12/08/2023 Instrument: HP 6890 (GC) - Agilent (FID) Lab Tech: Andrea Burrows

Analyte	Result (mg/g)	Result (%)	LOD (μg/mL)	LOQ (μg/mL)
α-Pinene	2.49	0.249	6.25	12.5
Camphene	< LOQ	< LOQ	6.25	12.5
Myrcene	14.1	1.41	6.25	12.5
a-Terpinene	< LOQ	< LOQ	6.25	12.5
β-pinene	0.946	0.0946	6.25	12.5
3-Carene	< LOQ	< LOQ	6.25	12.5
Ocimene	1.74	0.174	6.25	12.5
Delta-limonene	1.21	0.121	6.25	12.5
p-Cymene	0.432	0.0432	6.25	12.5
Eucalyptol	< LOQ	< LOQ	6.25	12.5
γ-Terpinene	< LOQ	< LOQ	6.25	12.5
Terpinolene	< LOQ	< LOQ	6.25	12.5
Linalool	0.779	0.0779	6.25	12.5
Isopulegol	0.484	0.0484	6.25	12.5
Geraniol	0.468	0.0468	6.25	12.5
β-Caryophyllene	5.85	0.585	6.25	12.5
Humulene	2.36	0.236	6.25	12.5
cis-Nerolidol	0.682	0.0682	6.25	12.5
trans-Nerolidol	3.44	0.344	6.25	12.5
Nerolidol	4.12	0.412	6.25	12.5
Guaiol	1.36	0.136	6.25	12.5
Caryophillene oxide	0.555	0.0555	6.25	12.5
α-Bisabolol	1.69	0.169	6.25	12.5
Total Terpenes:	39.9	3.99		



NOTES: mg/L = ppm, µg/L = ppb. "<" denotes "less than". ND is non-detectable quantity.

This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Transparent Testing. Results as reported relate only to samples as submitted, unless specifically noted otherwise. Measurement uncertainty is available upon request. The Limit of Detection (LOD) is the lowest limit at which the method can detect an analyte's presence as greater than zero. The Limit of Quantitation (LOQ) is the lowest limit at which the method is accurately able to quantify an analyte. The Threshold is the limit at which the Oklahoma Medical Marijuana Authority (OMMA) deems medical marijuana and marijuana-infused products as safe for use.



Heavy Metals PASS

Date Completed: Instrument: Perkin Elmer Elan DRC II (ICP-MS) Lab Tech: Lab Technician

Analyte	Result (ppm)	Threshold (ppm)	LOD (ppm)	LOQ (ppm)	Pass/Fail
Cadmium	ND *	0.200	0.0500	0.100	Pass
Lead	ND *	0.500	0.125	0.250	Pass
Arsenic	ND *	0.200	0.0500	0.100	Pass
Mercury	ND*	0.100	0.0250	0.0500	Pass

^{*}This test was performed by an outside third-party analytical laboratory. All third party laboratories used by Transparent Testing, LLC have ISO 17025 accreditation and OMMA laboratory license #LAAA-MOXZ-FQ1G.

Microbial Analysis

PASS

 Date Completed:
 Instrument: Agilent AriaMx (qPCR)
 Lab Tech: Ryan Bales

Analyte	Result (CFU/g)	Threshold (CFU/g)	Pass/Fail
Escherichia Coli (E. Coli)	ND	1.00	Pass
Yeast/Mold	ND	10,000	Pass
Salmonella spp	ND	1.00	Pass
Aspergillus Niger	ND	1.00	Pass
Aspergillus Fumigatus	ND	1.00	Pass
Aspergillus Terreus	ND	1.00	Pass
Aspergillus Flavus	ND	1.00	Pass

Pesticide Profile PASS

Date Completed: 12/11/2023 Instrument: Agilent 1200 (HPLC) - Agilent 6460 (QQQ) Lab Tech: Andrea Burrows

Analyte	Result (ppm)	LOQ (ppm)	Threshold (ppm)	Pass/Fail
Abamectin	ND	0.251	0.500	Pass
Azoxystrobin	ND	0.100	0.200	Pass
Bifenazate	ND	0.100	0.200	Pass
Etoxazole	ND	0.100	0.200	Pass
Imazalil	ND	0.100	0.200	Pass
Imidacloprid	ND	0.200	0.400	Pass
Malathion	ND	0.100	0.200	Pass
Myclobutanil	ND	0.100	0.200	Pass
Permethrin	ND	0.100	0.200	Pass
Spinosad	ND	0.100	0.200	Pass
Spiromesifen	ND	0.100	0.200	Pass
Spirotetramat	ND	0.100	0.200	Pass
Tebuconazole	ND	0.200	0.400	Pass



Foreign Materials

PASS

Date Completed: Instrument: NA Lab Tech: Lab Technician

Analyte	Pass/Fail	Comments
Foreign Materials	Pass	N/A

Water Activity PASS

Date Completed: Instrument: Rotronic Hygrola6 HC2-AW Lab Tech: Marchel Crawford

Analyte	Finding	Threshold	Pass/Fail
Water Activity	0.320	0.65	Pass

Moisture Content PASS

Date Completed: Instrument: NA Lab Tech: Marchel Crawford

Analyte	Result (%)	Pass/Fail
Moisture Content	13.1	Pass

Approved By: Lab Director Transparent Testing, LLC

12/13/2023