



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

Report of Analysis

Report Status: Final

Client Name: Heart and Soil, LLC

Address: 1004 Hwy 54
Guymon, OK 73942

Phone: 806-782-9938

OMMA #: GAAA-RC4Q-LIMD
08/30/2023

Collected:
Harvest/
Production: 12/26/2023

Special Notes: 1A40E01000147C1000004428

Lab ID: -10136

Strain: Biscotti

Matrix: Flower - Cured

Sample Batch #: 1A40E01000147C1000004403

Sample Weight: 10

Received: 02/20/2024



Summary of Results

Potency Profile	
Cannabinoid	Weight %
CBDV	ND
CBDA	ND
CBN	ND
CBD	ND
CBGA	0.391
CBG	0.186
THCV	ND
Δ9-THC	0.785
Δ8-THC	ND
THCA	29.5
CBC	ND
Total THC Delta-9(%)	26.7
Total THC Delta-9(mg/g)	267
Total Cannabinoids (%)	30.9
Total Cannabinoids (mg/g)	309

Microbiological Profile	
All Results	Pass

Heavy Metals Screening	
All Results	Pass

Moisture Content		
All Results	9.02 %	Pass

Terpene Profile	
Terpene	Result %
α-Pinene	< LOQ
Camphene	< LOQ
Myrcene	0.135
a-Terpinene	< LOQ
β-pinene	0.0502
3-Carene	< LOQ
Ocimene	< LOQ
Delta-limonene	0.172
p-Cymene	< LOQ
Eucalyptol	< LOQ
γ-Terpinene	< LOQ
Terpinolene	< LOQ
Linalool	< LOQ
Isopulegol	< LOQ
Geraniol	0.0527
β-Caryophyllene	0.607
Humulene	0.191
cis-Nerolidol	0.0697
trans-Nerolidol	0.395
Nerolidol	0.465
Guaial	0.105
Caryophyllene oxide	0.0464
α-Bisabolol	0.0527
Total Terpene %	1.98

Pesticide Screening	
All Results	Pass

Filth and Foreign Materials Screening	
All Results	Pass

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

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Potency

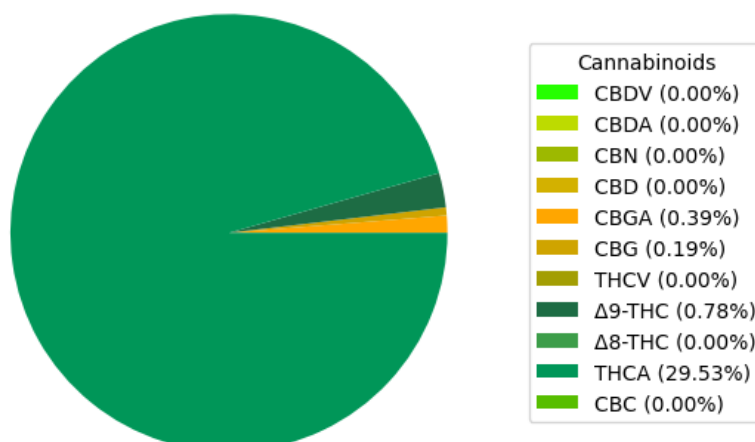
Date Completed: 02/21/2024

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	0.391	3.91	0.650
CBG	0.186	1.86	0.650
THCV	ND	ND	0.650
Δ 9-THC	0.785	7.85	0.650
Δ 8-THC	ND	ND	0.650
THCA	29.5	295	0.650
CBC	ND	ND	0.650
Total CBD	ND	ND	
Total THC	26.7	267	

Cannabinoid Distribution (%)



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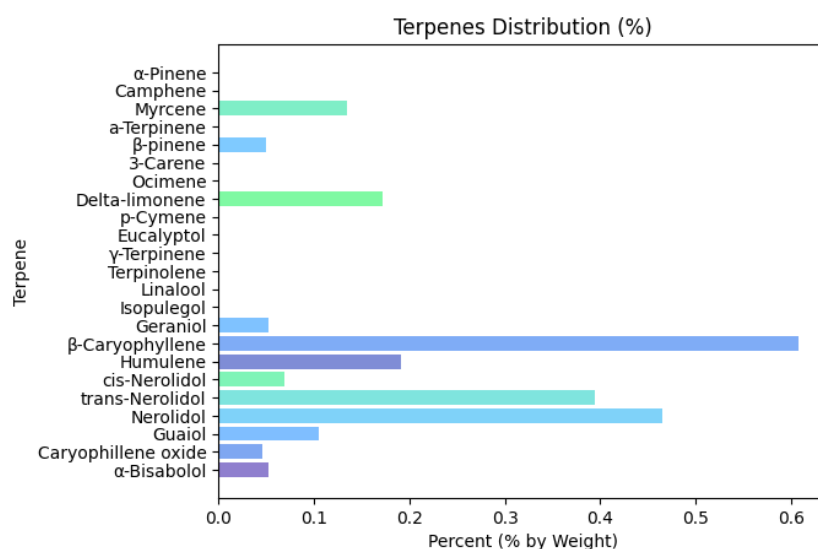
Terpenoid

Date Completed: 02/21/2024

Instrument: HP 6890 (GC) - Agilent (FID)

Lab Tech: Andrea Burrows

Analyte	Result (mg/g)	Result (%)	LOD ($\mu\text{g/mL}$)	LOQ ($\mu\text{g/mL}$)
α -Pinene	< LOQ	< LOQ	6.25	12.5
Camphene	< LOQ	< LOQ	6.25	12.5
Myrcene	1.35	0.135	6.25	12.5
a-Terpinene	< LOQ	< LOQ	6.25	12.5
β -pinene	0.502	0.0502	6.25	12.5
3-Carene	< LOQ	< LOQ	6.25	12.5
Ocimene	< LOQ	< LOQ	6.25	12.5
Delta-limonene	1.72	0.172	6.25	12.5
p-Cymene	< LOQ	< LOQ	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	< LOQ	< LOQ	6.25	12.5
Isopulegol	< LOQ	< LOQ	6.25	12.5
Geraniol	0.527	0.0527	6.25	12.5
β -Caryophyllene	6.07	0.607	6.25	12.5
Humulene	1.91	0.191	6.25	12.5
cis-Nerolidol	0.697	0.0697	6.25	12.5
trans-Nerolidol	3.95	0.395	6.25	12.5
Nerolidol	4.65	0.465	6.25	12.5
Guaiol	1.05	0.105	6.25	12.5
Caryophyllene oxide	0.464	0.0464	6.25	12.5
α -Bisabolol	0.527	0.0527	6.25	12.5
Total Terpenes:	19.8	1.98		



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Heavy Metals

PASS

Date Completed:

Instrument: Perkin Elmer Elan DRC II (ICP-MS)

Lab Tech: Marchel Crawford

Analyte	Result (ppm)	Threshold (ppm)	LOD (ppm)	LOQ (ppm)	Pass/Fail
Cadmium	ND	0.200	0.0500	0.100	Pass
Lead	< LOQ	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

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:

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

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Water Activity

PASS

Date Completed:

Instrument: Rotronic HygroLab6 HC2-AW

Lab Tech: Marchel Crawford

Analyte	Finding	Threshold	Pass/Fail
Water Activity	0.293	0.65	Pass

Moisture Content

PASS

Date Completed:

Instrument: NA

Lab Tech: Marchel Crawford

Analyte	Result (%)	Pass/Fail
Moisture Content	9.02	Pass



Approved By: Lab Director
Transparent Testing, LLC
02/26/2024

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