



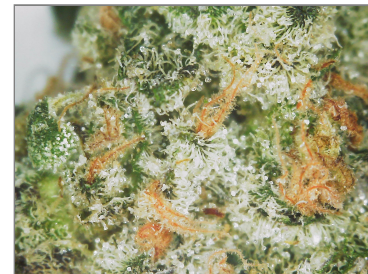
510 N Sheridan Road Suite D | Tulsa, OK 74115 | (918) 520-3441 | OMMA #: LAAA-0095-HXSF

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:

Lab ID: -9503
Strain: Pure Michigan
Matrix: Flower - Cured
Sample Batch #: 1A40E01000147C1000004251
Sample Weight: 10
Received: 01/23/2024



Summary of Results

Potency Profile		Terpene Profile	
Cannabinoid	Weight %	Terpene	Result %
CBDV	ND	α-Pinene	0.106
CBDA	ND	Camphene	< LOQ
CBN	ND	Myrcene	0.145
CBD	ND	α-Terpinene	< LOQ
CBGA	0.292	β-pinene	0.140
CBG	ND	3-Carene	< LOQ
THCV	ND	Ocimene	0.181
Δ9-THC	0.899	Delta-limonene	0.825
Δ8-THC	ND	p-Cymene	< LOQ
THCA	24.0	Eucalyptol	< LOQ
CBC	ND	γ-Terpinene	< LOQ
Total THC Delta-9(%)	22.0	Terpinolene	< LOQ
Total THC Delta-9(mg/g)	220	Linalool	0.0711
Total Cannabinoids (%)	25.2	Isopulegol	0.0491
Total Cannabinoids (mg/g)	252	Geraniol	0.0402
Microbiological Profile		β-Caryophyllene	0.667
All Results	Pass	Humulene	0.344
Heavy Metals Screening		cis-Nerolidol	0.0725
All Results	Pass	trans-Nerolidol	0.584
Moisture Content		Nerolidol	0.656
All Results	12.87 %	Guaiol	< LOQ
		Caryophyllene oxide	0.0516
		α-Bisabolol	0.114
		Total Terpene %	3.55
		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

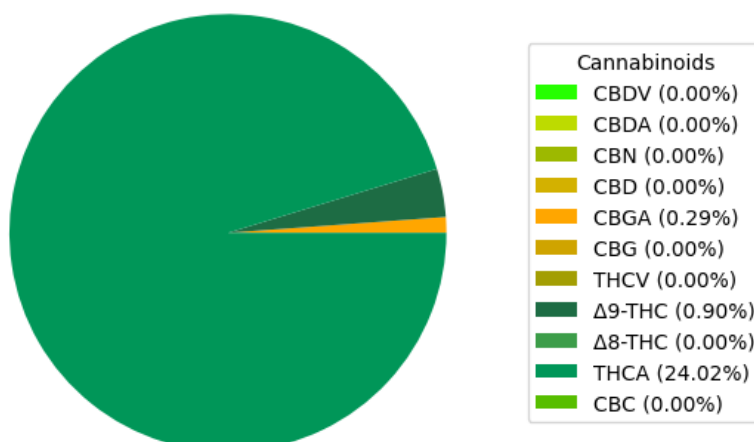
Date Completed: 01/25/2024

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	0.292	2.92	0.650
CBG	ND	ND	0.650
THCV	ND	ND	0.650
Δ 9-THC	0.899	8.99	0.650
Δ 8-THC	ND	ND	0.650
THCA	24.0	240	0.650
CBC	ND	ND	0.650
Total CBD	ND	ND	
Total THC	22.0	220	

Cannabinoid Distribution (%)



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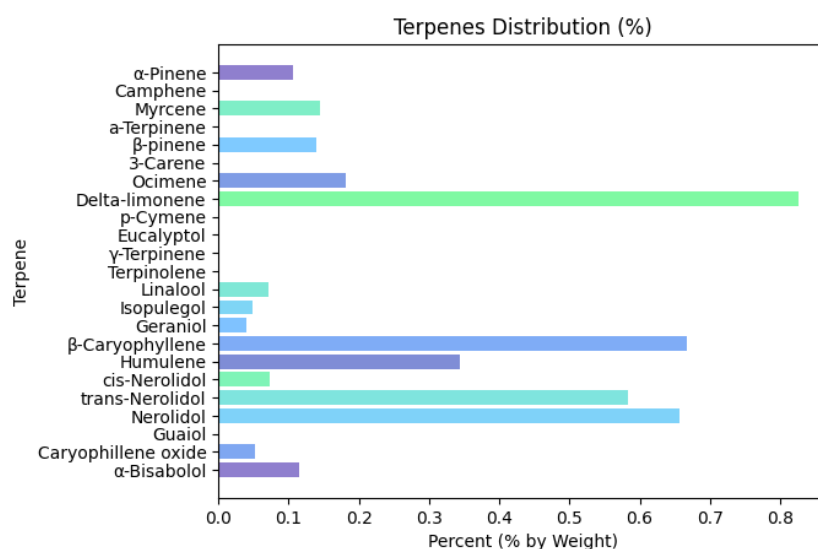
Terpenoid

Date Completed: 01/27/2024

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	1.06	0.106	6.25	12.5
Camphene	< LOQ	< LOQ	6.25	12.5
Myrcene	1.45	0.145	6.25	12.5
a-Terpinene	< LOQ	< LOQ	6.25	12.5
β -pinene	1.40	0.140	6.25	12.5
3-Carene	< LOQ	< LOQ	6.25	12.5
Ocimene	1.81	0.181	6.25	12.5
Delta-limonene	8.25	0.825	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	0.711	0.0711	6.25	12.5
Isopulegol	0.491	0.0491	6.25	12.5
Geraniol	0.402	0.0402	6.25	12.5
β -Caryophyllene	6.67	0.667	6.25	12.5
Humulene	3.44	0.344	6.25	12.5
cis-Nerolidol	0.725	0.0725	6.25	12.5
trans-Nerolidol	5.84	0.584	6.25	12.5
Nerolidol	6.56	0.656	6.25	12.5
Guaiol	< LOQ	< LOQ	6.25	12.5
Caryophyllene oxide	0.516	0.0516	6.25	12.5
α -Bisabolol	1.14	0.114	6.25	12.5
Total Terpenes:	35.5	3.55		



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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	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

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	0.436	0.65	Pass

Moisture Content

PASS

Date Completed:

Instrument: NA

Lab Tech: Marchel Crawford

Analyte	Result (%)	Pass/Fail
Moisture Content	12.9	Pass



Approved By: Lab Director
Transparent Testing, LLC
01/31/2024

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