



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: -9501
Strain: Baked Apple Cherries
Matrix: Flower - Cured
Sample Batch #: 1A40E01000147C1000004249
Sample Weight: 10
Received: 01/23/2024



Summary of Results

Potency Profile		Terpene Profile	
Cannabinoid	Weight %	Terpene	Result %
CBDV	ND	α-Pinene	0.263
CBDA	ND	Camphene	< LOQ
CBN	ND	Myrcene	1.11
CBD	ND	a-Terpinene	< LOQ
CBGA	2.24	β-pinene	0.112
CBG	0.156	3-Carene	< LOQ
THCV	ND	Ocimene	0.912
Δ9-THC	1.45	Delta-limonene	0.270
Δ8-THC	ND	p-Cymene	< LOQ
THCA	28.0	Eucalyptol	< LOQ
CBC	ND	γ-Terpinene	< LOQ
Total THC Delta-9(%)	26.0	Terpinolene	0.0652
Total THC Delta-9(mg/g)	260	Linalool	< LOQ
Total Cannabinoids (%)	31.8	Isopulegol	< LOQ
Total Cannabinoids (mg/g)	318	Geraniol	< LOQ
		β-Caryophyllene	0.381
		Humulene	0.191
		cis-Nerolidol	0.0729
		trans-Nerolidol	0.189
		Nerolidol	0.261
		Guaiol	< LOQ
		Caryophyllene oxide	0.0657
		α-Bisabolol	0.0765
		Total Terpene %	3.97

Microbiological Profile

All Results	Pass
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Heavy Metals Screening

All Results	Pass
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Moisture Content

All Results	11.40 %	Pass
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Pesticide Screening

All Results	Pass
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Filth and Foreign Materials Screening

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

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Potency

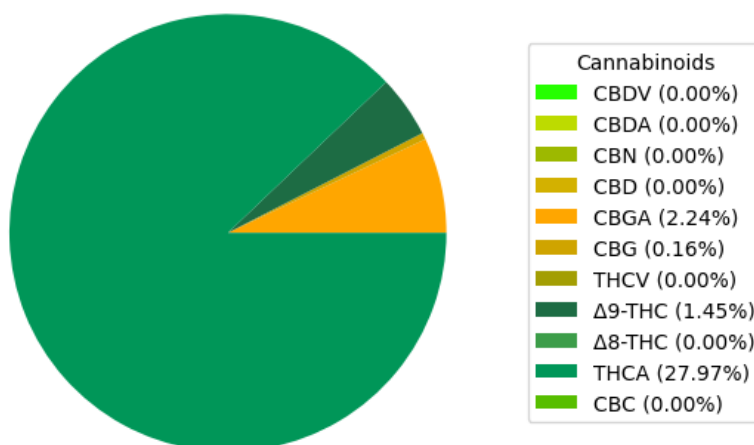
Date Completed: 01/25/2024

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	2.24	22.4	0.650
CBG	0.156	1.56	0.650
THCV	ND	ND	0.650
Δ 9-THC	1.45	14.5	0.650
Δ 8-THC	ND	ND	0.650
THCA	28.0	280	0.650
CBC	ND	ND	0.650
Total CBD	ND	ND	
Total THC	26.0	260	

Cannabinoid Distribution (%)



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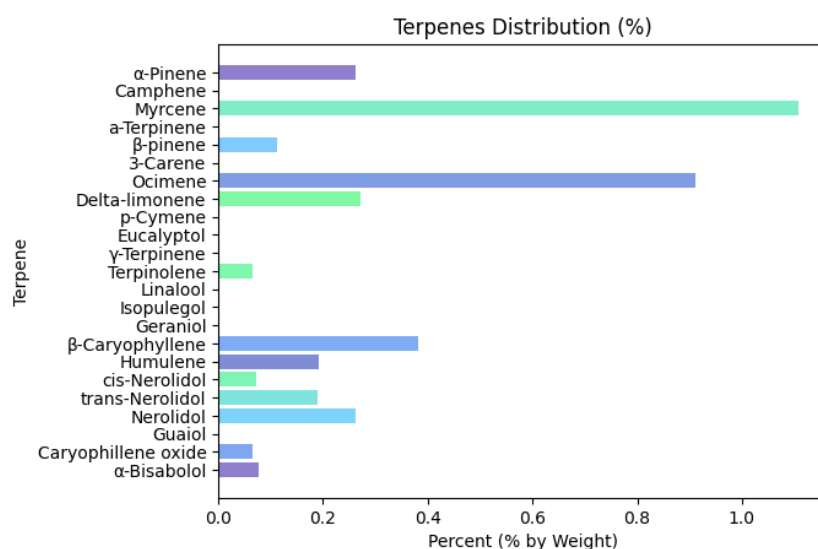
Terpenoid

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	2.63	0.263	6.25	12.5
Camphene	< LOQ	< LOQ	6.25	12.5
Myrcene	11.1	1.11	6.25	12.5
a-Terpinene	< LOQ	< LOQ	6.25	12.5
β -pinene	1.12	0.112	6.25	12.5
3-Carene	< LOQ	< LOQ	6.25	12.5
Ocimene	9.12	0.912	6.25	12.5
Delta-limonene	2.70	0.270	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	0.652	0.0652	6.25	12.5
Linalool	< LOQ	< LOQ	6.25	12.5
Isopulegol	< LOQ	< LOQ	6.25	12.5
Geraniol	< LOQ	< LOQ	6.25	12.5
β -Caryophyllene	3.81	0.381	6.25	12.5
Humulene	1.91	0.191	6.25	12.5
cis-Nerolidol	0.729	0.0729	6.25	12.5
trans-Nerolidol	1.89	0.189	6.25	12.5
Nerolidol	2.61	0.261	6.25	12.5
Guaiol	< LOQ	< LOQ	6.25	12.5
Caryophyllene oxide	0.657	0.0657	6.25	12.5
α -Bisabolol	0.765	0.0765	6.25	12.5
Total Terpenes:	39.7	3.97		



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Heavy Metals

PASS

Date Completed: 01/30/2024

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	0.369	0.65	Pass

Moisture Content

PASS

Date Completed:

Instrument: NA

Lab Tech: Marchel Crawford

Analyte	Result (%)	Pass/Fail
Moisture Content	11.4	Pass



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

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