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Wareham, MA 02571
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Customer: The Healing Rose

Address:

23 Hale St
Newburyport MA 01950

Phone: 978-409-1091

License #: MDAR 25190109P



Sample ID: 3020

Sample Name: Full Spectrum CBD Hemp Oil -
THCV Rich

Sample Type: Concentrate

Received Date: 11/07/2022

Report Date: 02/11/2023

METRC ID: N/A

Client Batch ID: HE53

Client Sample Size: 6 g

Certificate of Analysis

Amended 02/11/2023



Results Summary

Cannabinoids

11/08/2022

TESTED

Terpenes

11/11/2022

TESTED

Heavy Metals

11/09/2022

✓ PASS

Microbial Impurities

11/10/2022

✓ PASS

Residual Solvents

11/11/2022

✓ PASS

Mycotoxins

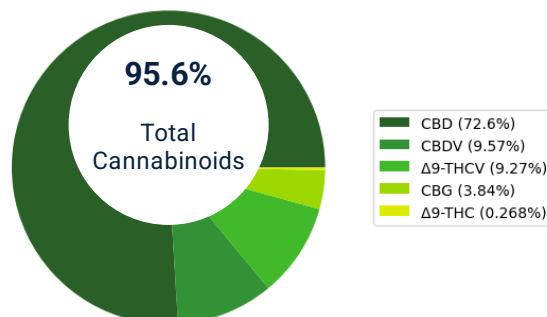
11/09/2022

✓ PASS

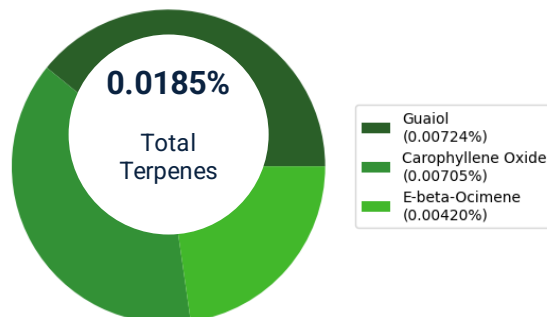
Amended Report Notes

Revised cannabinoid distribution graph on page 1 for accuracy.

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Cannabinoids

Date Started: 11/07/2022
Instrument: UPLC-PDA

Date Completed: 11/08/2022
Method: TP-09.001.03 & TP-09.012.03

Analyst: Yüemin Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
CBD	72.6	726	0.0429
CBDV	9.57	95.7	0.0172
Δ9-THCV	9.27	92.7	0.0172
CBG	3.84	38.4	0.0214
Δ9-THC	0.268	2.68	0.0429
CBDVA	ND	ND	0.0172
CBDA	ND	ND	0.0429
CBGA	ND	ND	0.0214
Δ8-THCV	ND	ND	0.0214
THCVA	ND	ND	0.0172
CBN	ND	ND	0.0214
CBNA	ND	ND	0.0172
Exo-THC	ND	ND	0.0172
Δ8-THC	ND	ND	0.0214
CBL	ND	ND	0.0172
THCA-A	ND	ND	0.0429
CBC	ND	ND	0.0172
CBCA	ND	ND	0.0172
Total THC	0.268	2.68	
Total CBD	72.6	726	
Total Cannabinoids	95.6	956	

Total THC = Δ9-THC + Δ8-THC + (THCA-A x 0.877)

Total CBD = CBD + (CBDA x 0.877)

Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.

LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

Certificate of Analysis

Amended 02/11/2023

Terpenes

Date Started: 11/08/2022
Instrument: GC-MS

Date Completed: 11/11/2022
Method: TP-09.004.03

Analyst: Yueming Wang Kovaleff
Deviation: N/A

Terpene	Result (ppm)	Result (mg/g)	Result (%)	LOD (ppm)	LOQ (ppm)
Guaiol	0.900	0.0724	0.00724	0.00219	0.0100
Carophyllene Oxide	0.877	0.0705	0.00705	0.00227	0.0100
E-beta-Ocimene	0.522	0.0420	0.00420	0.00416	0.0100
alpha-Pinene	ND	ND	ND	0.000844	0.0100
Camphene	ND	ND	ND	0.00111	0.0100
beta-Pinene	ND	ND	ND	0.00208	0.0100
beta-Myrcene	ND	ND	ND	0.00169	0.0100
D-Limonene	ND	ND	ND	0.00212	0.0100
Linalool	ND	ND	ND	0.00306	0.0100
Isopulegol	ND	ND	ND	0.00487	0.0100
Geraniol	ND	ND	ND	0.00313	0.0100
E-Caryophyllene	ND	ND	ND	0.00441	0.0100
alpha-Humulene	ND	ND	ND	0.00217	0.0100
Z-Nerolidol	ND	ND	ND	0.00273	0.0100
E-Nerolidol	ND	ND	ND	0.00229	0.0100
alpha-Bisabolol	ND	ND	ND	0.00372	0.0100
Eucalyptol	ND	ND	ND	0.00305	0.0100
delta-3-Carene	ND	ND	ND	0.00328	0.0100
alpha-Terpinene	ND	ND	ND	0.00308	0.0100
Z-beta-Ocimene	ND	ND	ND	0.00407	0.0100
gamma-Terpinene	ND	ND	ND	0.00227	0.0100
Terpinolene	ND	ND	ND	0.00125	0.0100
Total Terpenes	2.30	0.185	0.0185		

Heavy Metals

✓ **PASS**

Date Started: 11/08/2022
Instrument: ICP-MS

Date Completed: 11/09/2022
Method: TP-09.007.01

Analyst: Lana Rivera
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	50.5	200	Pass
Cadmium	50.5	200	Pass
Lead	50.5	500	Pass
Mercury	25.2	100	Pass

Microbial Impurities

✓ **PASS**

Date Started: 11/07/2022
Instrument: TEMPO & Gene-Up

Date Completed: 11/10/2022
Method: TP-09.010.01 & TP-09.011.01

Analyst: Elliot Henderson
Deviation: N/A

Microbials	Limit (CFU/g)	Status
Coliforms	100	Pass
Bile-Tolerant Gram-Negative Bacteria	100	Pass
Yeast & Mold	1000	Pass
Aerobic Bacteria	10000	Pass
E.coli		Pass
Salmonella		Pass

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Certificate of Analysis

Amended 02/11/2023

Residual Solvents

✓ **PASS**

Date Started: 11/10/2022
Instrument: HS-GC-MS

Date Completed: 11/11/2022
Method: TP-09.005.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.51	12.0	Pass
Iso-butane	1.51	12.0	Pass
n-Butane	1.51	12.0	Pass
Methanol	91.1	3000	Pass
Ethylene Oxide	0.607		Pass
n-Pentane	91.1	5000	Pass
Ethanol	91.1	5000	Pass
Ethyl Ether	91.1	5000	Pass
Acetone	91.1	5000	Pass
Isopropyl Alcohol	91.1	5000	Pass
Acetonitrile	91.1	410	Pass
Methylene Chloride	0.607	600	Pass
n-Hexane	91.1	290	Pass
Ethyl Acetate	91.1	5000	Pass
Chloroform	0.607	60.0	Pass
1,2-Dichloroethane	0.607	1870	Pass
Benzene	0.607		Pass
n-Heptane	91.1	5000	Pass
Trichloroethylene	0.607	80.0	Pass
Toluene	91.1	890	Pass
Total Xylenes	45.5	2170	Pass

Mycotoxins

✓ **PASS**

Date Started: 11/07/2022
Instrument: LC-MS/MS

Date Completed: 11/09/2022
Method: TP-09.009.01

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.89		
Aflatoxin B2	3.67		
Aflatoxin G1	3.67		
Aflatoxin G2	4.89		
Ochratoxin A	3.67		
Total Mycotoxins	3.67	20.0	Pass



Eric Steele, Lab Director
 02/11/2023

END OF REPORT