



Smithers AMS LLC
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Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550



Customer: The Healing Rose
Address:
23 Hale St
Newburyport MA 01950
Phone: 978-409-1091
License #: MDAR 25190109P



Sample ID: 4311
Sample Name: 1:1 CBD:CBG CO2 Extract - Organic
Sample Type: Concentrate
Received Date: 02/27/2023
Report Date: 03/03/2023
METRC ID: N/A
Client Batch ID: HE57
Client Sample Size: 7.27 g

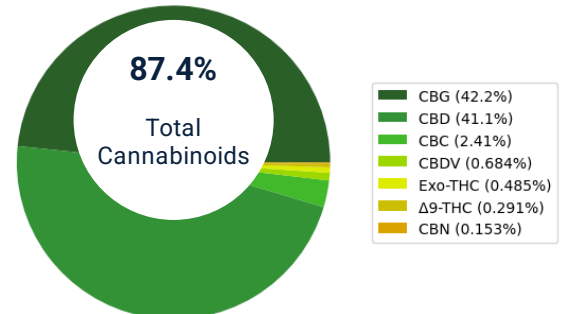
Certificate of Analysis



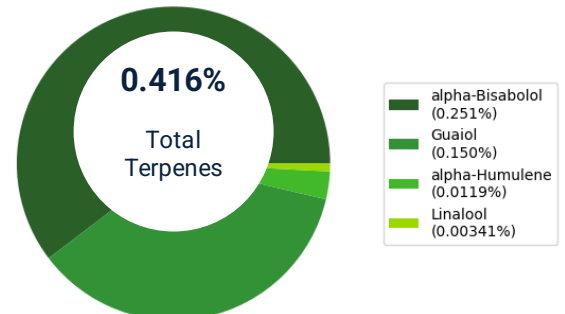
Results Summary

Cannabinoids	TESTED
03/02/2023	
Heavy Metals	✓ PASS
03/03/2023	
Microbial Impurities	✓ PASS
03/03/2023	
Mycotoxins	✓ PASS
03/03/2023	
Terpenes	TESTED
03/02/2023	

Cannabinoid Distribution (%)



Terpene Distribution (%)



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Certificate of Analysis

Cannabinoids

Date Started: 02/28/2023
Instrument: UPLC-PDA

Date Completed: 03/02/2023
Method: TP-09.001.03 & TP-09.012.03

Analyst: Yueming Wang Kovaleff
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
CBG	42.2	422	1.05
CBD	41.1	411	2.09
CBC	2.41	24.1	0.0419
CBDV	0.684	6.84	0.0419
Exo-THC	0.485	4.85	0.0419
Δ9-THC	0.291	2.91	0.0114
CBN	0.153	1.53	0.0524
CBDVA	ND	ND	0.0419
CBDA	ND	ND	0.105
CBGA	ND	ND	0.0524
Δ9-THCV	ND	ND	0.0419
Δ8-THCV	ND	ND	0.0419
THCVA	ND	ND	0.0419
CBNA	ND	ND	0.0419
Δ8-THC	ND	ND	0.0524
CBL	ND	ND	0.0419
THCA-A	ND	ND	0.105
CBCA	ND	ND	0.0419
Total THC	0.291	2.91	
Total CBD	41.1	411	
Total Cannabinoids	87.4	874	

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.

Heavy Metals

✓ **PASS**

Date Started: 03/02/2023
Instrument: ICP-MS

Date Completed: 03/03/2023
Method: TP-09.007.01

Analyst: Lana Rivera
Deviation: N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	58.9	200	Pass
Cadmium	58.9	200	Pass
Lead	58.9	500	Pass
Mercury	29.5	100	Pass

Microbial Impurities

✓ **PASS**

Date Started: 02/28/2023
Instrument: TEMPO & Gene-Up

Date Completed: 03/03/2023
Method: TP-09.010.01 & TP-09.011.01

Analyst: Lana Rivera
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

Mycotoxins

✓ **PASS**

Date Started: 02/28/2023
Instrument: LC-MS/MS

Date Completed: 03/03/2023
Method: TP-09.009.01

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.52		
Aflatoxin B2	3.39		
Aflatoxin G1	3.39		
Aflatoxin G2	4.52		
Ochratoxin A	3.39		
Total Mycotoxins	3.39	20.0	Pass

Terpenes

Date Started: 02/28/2023
Instrument: GC-MS

Date Completed: 03/02/2023
Method: TP-09.004.03

Analyst: Yuemin Wang Kovaleff
Deviation: N/A

Terpene	Result (ppm)	Result (mg/g)	Result (%)	LOD (ppm)	LOQ (ppm)
alpha-Bisabolol	30.6	2.51	0.251	0.00379	0.0102
Guaiol	18.3	1.50	0.150	0.00223	0.0102
alpha-Humulene	1.46	0.119	0.0119	0.00221	0.0102
Linalool	0.417	0.0341	0.00341	0.00312	0.0102
alpha-Pinene	ND	ND	ND	0.000859	0.0102
Camphene	ND	ND	ND	0.00113	0.0102
beta-Pinene	ND	ND	ND	0.00212	0.0102
beta-Myrcene	ND	ND	ND	0.00172	0.0102
E-beta-Ocimene	ND	ND	ND	0.00423	0.0102
D-Limonene	ND	ND	ND	0.00216	0.0102
Isopulegol	ND	ND	ND	0.00496	0.0102
Geraniol	ND	ND	ND	0.00318	0.0102
E-Caryophyllene	ND	ND	ND	0.00449	0.0102
Z-Nerolidol	ND	ND	ND	0.00277	0.0102
E-Nerolidol	ND	ND	ND	0.00233	0.0102
Carophyllene Oxide	ND	ND	ND	0.00232	0.0102
Eucalyptol	ND	ND	ND	0.00310	0.0102
delta-3-Carene	ND	ND	ND	0.00334	0.0102
alpha-Terpinene	ND	ND	ND	0.00313	0.0102
Z-beta-Ocimene	ND	ND	ND	0.00414	0.0102
gamma-Terpinene	ND	ND	ND	0.00232	0.0102
Terpinolene	ND	ND	ND	0.00128	0.0102
Total Terpenes	50.8	4.16	0.416		



Eric Steele, Lab Director
 03/03/2023

END OF REPORT

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