



**Smithers AMS LLC**  
790 Main St  
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:** 3019  
**Sample Name:** Certified Organic Full Spectrum CBG CO2 Distillate  
**Sample Type:** Concentrate  
**Received Date:** 11/07/2022  
**Report Date:** 11/11/2022  
**METRC ID:** N/A  
**Client Batch ID:** HE52  
**Client Sample Size:** 6 g

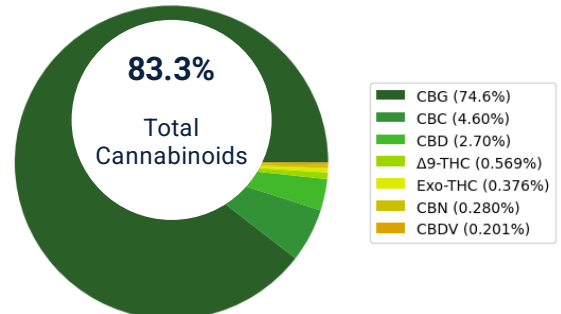
## Certificate of Analysis



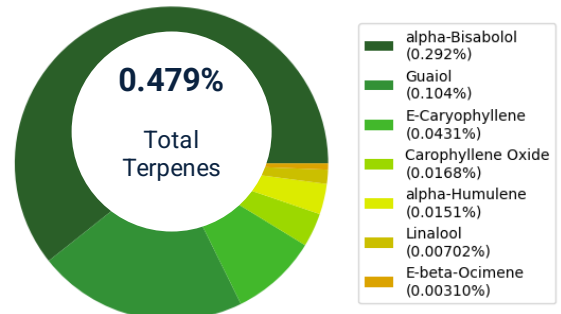
### Results Summary

<b>Cannabinoids</b>	TESTED
11/08/2022	
<b>Terpenes</b>	TESTED
11/11/2022	
<b>Heavy Metals</b>	✓ PASS
11/09/2022	
<b>Microbial Impurities</b>	✓ PASS
11/10/2022	
<b>Residual Solvents</b>	✓ PASS
11/11/2022	
<b>Mycotoxins</b>	✓ PASS
11/09/2022	

### 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:** Yuesmin Wang Kovaleff  
**Deviation:** N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
CBG	74.6	746	0.00476	0.0198
CBC	4.60	46.0	0.00522	0.0159
CBD	2.70	27.0	0.00551	0.0396
Δ9-THC	0.569	5.69	0.00558	0.0396
Exo-THC	0.376	3.76	0.0117	0.0159
CBN	0.280	2.80	0.00459	0.0198
CBDV	0.201	2.01	0.00412	0.0159
CBDVA	ND	ND	0.00201	0.0159
CBDA	ND	ND	0.00581	0.0396
CBGA	ND	ND	0.00491	0.0198
Δ9-THCV	ND	ND	0.00991	0.0159
Δ8-THCV	ND	ND	0.00591	0.0198
THCVA	ND	ND	0.00999	0.0159
CBNA	ND	ND	0.00748	0.0159
Δ8-THC	ND	ND	0.0139	0.0198
CBL	ND	ND	0.00519	0.0159
THCA-A	ND	ND	0.00519	0.0396
CBCA	ND	ND	0.0140	0.0159
<b>Total THC</b>	<b>0.569</b>	<b>5.69</b>		
<b>Total CBD</b>	<b>2.70</b>	<b>27.0</b>		
<b>Total Cannabinoids</b>	<b>83.3</b>	<b>833</b>		

**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

## 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)
alpha-Bisabolol	40.4	2.92	0.292	0.00335	0.00904
Guaiol	14.4	1.04	0.104	0.00197	0.00904
E-Caryophyllene	5.96	0.431	0.0431	0.00397	0.00904
Carophyllene Oxide	2.33	0.168	0.0168	0.00205	0.00904
alpha-Humulene	2.09	0.151	0.0151	0.00195	0.00904
Linalool	0.971	0.0702	0.00702	0.00276	0.00904
E-beta-Ocimene	0.428	0.0310	0.00310	0.00374	0.00904
alpha-Pinene	ND	ND	ND	0.000760	0.00904
Camphene	ND	ND	ND	0.000999	0.00904
beta-Pinene	ND	ND	ND	0.00187	0.00904
beta-Myrcene	ND	ND	ND	0.00152	0.00904
D-Limonene	ND	ND	ND	0.00191	0.00904
Isopulegol	ND	ND	ND	0.00438	0.00904
Geraniol	ND	ND	ND	0.00281	0.00904
Z-Nerolidol	ND	ND	ND	0.00245	0.00904
E-Nerolidol	ND	ND	ND	0.00206	0.00904
Eucalyptol	ND	ND	ND	0.00274	0.00904
delta-3-Carene	ND	ND	ND	0.00295	0.00904
alpha-Terpinene	ND	ND	ND	0.00277	0.00904
Z-beta-Ocimene	ND	ND	ND	0.00366	0.00904
gamma-Terpinene	ND	ND	ND	0.00205	0.00904
Terpinolene	ND	ND	ND	0.00113	0.00904
<b>Total Terpenes</b>	<b>66.1</b>	<b>4.79</b>	<b>0.479</b>		

## 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	50.9	200	Pass
Cadmium	50.9	200	Pass
Lead	50.9	500	Pass
Mercury	25.5	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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## 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	1.33	12.0	Pass
Iso-butane	1.33	12.0	Pass
n-Butane	1.33	12.0	Pass
Methanol	80.1	3000	Pass
Ethylene Oxide	0.534		Pass
n-Pentane	80.1	5000	Pass
Ethanol	80.1	5000	Pass
Ethyl Ether	80.1	5000	Pass
Acetone	80.1	5000	Pass
Isopropyl Alcohol	80.1	5000	Pass
Acetonitrile	80.1	410	Pass
Methylene Chloride	0.534	600	Pass
n-Hexane	80.1	290	Pass
Ethyl Acetate	80.1	5000	Pass
Chloroform	0.534	60.0	Pass
1,2-Dichloroethane	0.534	1870	Pass
Benzene	0.534		Pass
n-Heptane	80.1	5000	Pass
Trichloroethylene	0.534	80.0	Pass
Toluene	80.1	890	Pass
<b>Total Xylenes</b>	<b>40.1</b>	<b>2170</b>	<b>Pass</b>

## 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	4.48		
Aflatoxin B2	3.36		
Aflatoxin G1	3.36		
Aflatoxin G2	4.48		
Ochratoxin A	3.36		
<b>Total Mycotoxins</b>	<b>3.36</b>	<b>20.0</b>	<b>Pass</b>



Eric Steele, Lab Director  
 11/11/2022

**END OF REPORT**

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