



**Smithers AMS LLC**  
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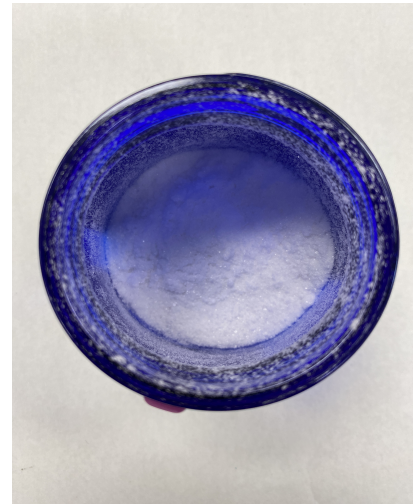


**Customer:** The Healing Rose  
**Address:**  
23 Hale St  
Newburyport MA 01950  
**Phone:** 978-409-1091  
**License #:** MDAR 25190109P



**Sample ID:** 4054  
**Sample Name:** CBN Isolate  
**Sample Type:** Isolate  
**Received Date:** 02/13/2023  
**Report Date:** 02/16/2023  
**METRC ID:** N/A  
**Client Batch ID:** HE54  
**Client Sample Size:** 5 g

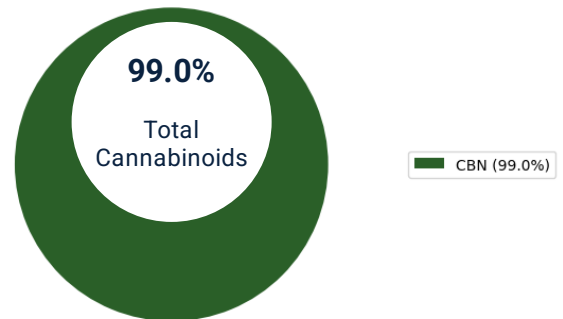
## Certificate of Analysis



### Results Summary

<b>Cannabinoids</b> 02/15/2023	TESTED
<b>Heavy Metals</b> 02/16/2023	✓ PASS
<b>Microbial Impurities</b> 02/16/2023	✓ PASS
<b>Residual Solvents</b> 02/15/2023	✓ PASS
<b>Mycotoxins</b> 02/16/2023	✓ PASS

### Cannabinoid Distribution (%)



Disclaimer: The results presented within this report pertain only to the sample(s) indicated, as received by Smithers AMS LLC. Smithers AMS LLC is responsible for the information provided in this report, unless indicated that the customer provided the information. This report shall not be reproduced, except in full, without the written approval of Smithers AMS LLC. Action limits used to dictate pass/fail criteria are set by the Massachusetts Cannabis Control Commission.



# Certificate of Analysis

## Cannabinoids

**Date Started:** 02/13/2023  
**Instrument:** UPLC-PDA

**Date Completed:** 02/15/2023  
**Method:** TP-09.001.03 & TP-09.012.03

**Analyst:** Yueming Wang Kovaleff  
**Deviation:** N/A

Cannabinoid	Result (%)	Result (mg/g)	LOQ (%)
CBN	99.0	990	2.30
CBDVA	ND	ND	0.0922
CBDV	ND	ND	0.0922
CBDA	ND	ND	0.230
CBGA	ND	ND	0.115
CBG	ND	ND	0.115
CBD	ND	ND	0.230
Δ9-THCV	ND	ND	0.0922
Δ8-THCV	ND	ND	0.0922
THCVA	ND	ND	0.0922
CBNA	ND	ND	0.0922
Exo-THC	ND	ND	0.0922
Δ9-THC	ND	ND	0.230
Δ8-THC	ND	ND	0.115
CBL	ND	ND	0.0922
THCA-A	ND	ND	0.230
CBC	ND	ND	0.0922
CBCA	ND	ND	0.0922
<b>Total THC</b>	<b>ND</b>	<b>ND</b>	
<b>Total CBD</b>	<b>ND</b>	<b>ND</b>	
<b>Total Cannabinoids</b>	<b>99.0</b>	<b>990</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.

## Heavy Metals

✓ **PASS**

**Date Started:** 02/16/2023  
**Instrument:** ICP-MS

**Date Completed:** 02/16/2023  
**Method:** TP-09.007.01

**Analyst:** Lana Rivera  
**Deviation:** N/A

Heavy Metals	LOQ (ppb)	Limit (ppb)	Status
Arsenic	52.5	200	Pass
Cadmium	52.5	200	Pass
Lead	52.5	500	Pass
Mercury	26.3	100	Pass

## Microbial Impurities

✓ **PASS**

**Date Started:** 02/13/2023  
**Instrument:** TEMPO & Gene-Up

**Date Completed:** 02/16/2023  
**Method:** TP-09.010.01 & TP-09.011.01

**Analyst:** Eric Steele  
**Deviation:** N/A

Microbials	Limit (CFU/g)	Status
Coliforms	1000	Pass
Bile-Tolerant Gram-Negative Bacteria	1000	Pass
Yeast & Mold	10000	Pass
Aerobic Bacteria	100000	Pass
E.coli		Pass
Salmonella		Pass

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# Certificate of Analysis

## Residual Solvents

✓ **PASS**

**Date Started:** 02/14/2023  
**Instrument:** HS-GC-MS

**Date Completed:** 02/15/2023  
**Method:** TP-09.005.03

**Analyst:** Yuemin Wang Kovaleff  
**Deviation:** N/A

Residual Solvent	LOQ (ppm)	Limit (ppm)	Status
n-Propane	1.47	12.0	Pass
Iso-butane	1.47	12.0	Pass
n-Butane	1.47	12.0	Pass
Methanol	88.3	3000	Pass
Ethylene Oxide	0.589		Pass
n-Pentane	88.3	5000	Pass
Ethanol	88.3	5000	Pass
Ethyl Ether	88.3	5000	Pass
Acetone	88.3	5000	Pass
Isopropyl Alcohol	88.3	5000	Pass
Acetonitrile	88.3	410	Pass
Methylene Chloride	0.589	600	Pass
n-Hexane	88.3	290	Pass
Ethyl Acetate	88.3	5000	Pass
Chloroform	0.589	60.0	Pass
1,2-Dichloroethane	0.589	1870	Pass
Benzene	0.589		Pass
n-Heptane	88.3	5000	Pass
Trichloroethylene	0.589	80.0	Pass
Toluene	88.3	890	Pass
<b>Total Xylenes</b>	<b>44.2</b>	<b>2170</b>	<b>Pass</b>

## Mycotoxins

✓ **PASS**

**Date Started:** 02/13/2023  
**Instrument:** LC-MS/MS

**Date Completed:** 02/16/2023  
**Method:** TP-09.009.01

**Analyst:** Yuemin Wang Kovaleff  
**Deviation:** N/A

Mycotoxins	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	4.07		
Aflatoxin B2	3.05		
Aflatoxin G1	3.05		
Aflatoxin G2	4.07		
Ochratoxin A	3.05		
<b>Total Mycotoxins</b>	<b>3.05</b>	<b>20.0</b>	<b>Pass</b>



Eric Steele, Lab Director  
 02/16/2023

**END OF REPORT**