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## **Analytical Report**

GAMA Report ID: CRLC-05388 Report Submitted: 1/17/2025

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Client Info	Sample Identification
Cedar Roots LLC 50 East Main Street Ware, MA 01 License: MC282746 Metrc Manifest: 2692374 Date Received: 1/14/2025	METRC Batch ID: N/A
Sample Properties	Product Characterization
Sample Weight (g): 7.06	Production Stage: Raw Plant Material Product Class: Buds Retail Name: Permanent Marker
Results for Requested Analyses	Y = Tested "-" = Not Tested P = Pass F = Fail
Cannabinoid Y Terpene Y Profile Y	Heavy P Residual - Pesticides P Total Yeast and P Mold P
Mycotoxins <mark>P</mark> Pathogenic P Bacteria	Total ColiformsPTotal Aerobic BacteriaPEntero- bacteriaceaePVitamin E Acetate
	Authorization
Massachusetts Cannabis Control Commission (C CCC's Protocol for Sampling and Analysis of Fi Medical Marijuana Dispensaries. The net/gross laboratory. Quality control checks were prepare here pertain to the sample received and relate reproduced except in full without GAMA approv decision rule is applied, however the measurem	pendent Testing Laboratory accredited to ISO/IEC 17025:2017 and licensed by the (CCC, # IL281277). Analytical methods and best-practices used are in compliance with the Finished Medical Marijuana Products and Marijuana-Infused Products for MA Registered is weight of the sample received was verified and all analyses were conducted at the GAMA red at known concentrations and run alongside batched client samples. Results presented e only to items tested per sub-sampling SOP-071-MA. This Analytical Report shall not be wal. Where statements of conformity are reported ('pass' vs. 'fail'), the simple acceptance ment uncertainty associated with the test method applied (not displayed in this simplified statement of conformity is made. This simplified report may not display all test methods a also available upon request.

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James Roush Laboratory Director



## **Analytical Report**

Cannabinoid Profile Test ID: #955927

Metrc Id Tag: 1A40A030000BFCD000005388

Cannabinoids were analyzed using a High Performance Liquid Chromatograph equipped with a Photodiode Array Detector (HPLC-PDA) following GAMA SOP-002-MA; SOP-025-MA; SOP-073-MA.

Cannabinoid	LOQ (%)	Result (%)	Result (mg/g)	
Tetrahydrocannabinolic acid (THCA)	0.040	22.522	225.22	
$\Delta 9$ -Tetrahydrocannabinol ( $\Delta 9$ -THC)	0.040	2.250	22.50	
Cannabidiolic acid (CBDA)	0.040	ND	ND	
Cannabidiol (CBD)	0.040	ND	ND	
Cannabinol (CBN)	0.040	ND	ND	
Cannabichromene (CBC)	0.040	ND	ND	
Cannabigerolic acid (CBGA)	0.040	0.988	9.88	
Cannabigerol (CBG)	0.040	0.215	2.15	
Cannabidivarin (CBDV)	0.040	ND	ND	
Tetrahydrocannabivarin (THCV)	0.040	ND	ND	
$\Delta 8$ -Tetrahydrocannabinol ( $\Delta 8$ -THC)	0.040	ND	ND	
Total THC		22.002	220.02	
Total CBD		ND	ND	
Total Cannabinoids		25.975	259.75	

Total CBD: CBD + (CBDA \* 0.877)

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

Heavy Metals Analysis	Metrc ID Tag: 1A40A030000BFCD000005388
Test ID: #955929	Analysis Date: 01/15/2025
Lieuw Matale ware analyzed using an industrialy Counted D	Lorena Marca Crastinamator (ICD MC) following CAMA COD 021 MA. COD 0(1

Heavy Metals were analyzed using an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) following GAMA SOP-021-MA; SOP-061-MA; SOP-072-MA. - Limit units: ppb

LOQ (ppb)	Result (ppb)	Limit	Pass/Fail	
132.9	ND	200	PASS	
131.7	BLQ	200	PASS	
88.0	BLQ	100	PASS	
175.8	BLQ	500	PASS	
	132.9 131.7 88.0	132.9 ND   131.7 BLQ   88.0 BLQ	132.9 ND 200   131.7 BLQ 200   88.0 BLQ 100	132.9 ND 200 PASS   131.7 BLQ 200 PASS   88.0 BLQ 100 PASS

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

#### PCR Microbial Contaminants Analysis Test IDs:955932, 955935, 955936, 955937

Microbial Contaminants were measured using a quantitative PCR (qPCR) technique from which the resulting Cq values were converted to colony forming units per gram (CFU/g) following GAMA SOP-701-MA; SOP-702-MA; SOP-703-MA; SOP-704-MA. - Limit units: CFU/g

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Analyte	Result	Analysis Date	Limit	Finding	
Total Yeast and Mold (TYM)	ND	01/16/2025	10000	PASS	
Total Viable Aerobic Bacteria (TAC)	1048	01/16/2025	100000	PASS	
Total Coliforms (TC)	ND	01/16/2025	1000	PASS	
Enterobacteriaceae (EB)	ND	01/16/2025	1000	PASS	
Note "NT": Not Tested; "ND": Not Detected.					



## **Analytical Report**

#### Pathogenic Bacteria Results Test IDs:955933, 955934

#### Metrc Id Tag: 1A40A030000BFCD000005388

Metrc ID Tag: 1A40A030000BFCD000005388

Analysis Date: 01/17/2025

The presence or absence of STEC E. coli and Salmonella spp. was determined using a PCR technique. Samples were incubated for a minimum of 18 hours prior to plating and analyzed following GAMA SOP-700-MA. - Limit units: CFU/g

Analyte	Result	Analysis Date	Limit	Finding
STEC E. Coli	Not Detected in 1g	01/17/2025	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	01/17/2025	Detection in 1.0 g	PASS

Note "NT": Not Tested; "ND": Not Detected.

# Mycotoxins ResultsMetrc ID Tag: 1A40A030000BFCD000005388Test ID: #955931Analysis Date: 01/17/2025

Mycotoxins were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-MA; SOP-062-MA; SOP-070-MA. - Limit units:  $\mu g/kg$ 

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding	
Aflatoxin B1	10.0	ND	20	PASS	
Aflatoxin B2	10.0	ND	20	PASS	
Aflatoxin G1	10.0	ND	20	PASS	
Aflatoxin G2	10.0	ND	20	PASS	
Ochratoxin A	10.0	ND	20	PASS	

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

#### Pesticides Results Test ID: #955930

Pesticides were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-MA; SOP-062-MA; SOP-070-MA. - Limit units: ppb

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding	
Bifenazate	5.0	ND	10	PASS	
Bifenthrin	5.0	ND	10	PASS	
Cyfluthrin	5.0	ND	10	PASS	
Etoxazole	5.0	ND	10	PASS	
Imazalil	5.0	ND	10	PASS	
Imidacloprid	5.0	ND	10	PASS	
Myclobutanil	5.0	ND	10	PASS	
Spiromesifen	5.0	ND	10	PASS	
Trifloxystrobin	5.0	ND	10	PASS	



Terpenes Profile Test ID: #955928

## **Analytical Report**

### Metrc ID Tag: 1A40A030000BFCD000005388 Analysis Date: 01/16/2025

## Terpenes were analyzed using a Liquid Injection Autosampler coupled to a Gas Chromatograph equipped with a tandem Mass Spectrometer (GC/MS/MS) following GAMA SOP-002-MA; SOP-063-MA; SOP-069-MA.

Analyte	LOQ (%)	Result (%)	Result (mg/g)	
a-Pinene	0.01	0.244	2.44	
β-Pinene	0.01	0.194	1.94	
β-Myrcene	0.01	0.074	0.74	
Limonene	0.01	1.088	10.88	
Terpinolene	0.01	0.014	0.14	
Linalool	0.01	0.375	3.75	
Caryophyllene	0.01	0.657	6.57	
a-Humulene	0.01	0.157	1.57	
Caryophyllene Oxide	0.01	0.014	0.14	
α-Bisabolol	0.01	0.051	0.51	
Total Terpenes		2.868	28.68	

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.