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GAMA Report ID: CRLC-06548  
Report Submitted: 4/8/2025

## Client Info

Cedar Roots LLC  
50 East Main Street Ware, MA 01082  
License: MC282746  
Metrc Manifest: 2820457  
Date Received: 3/28/2025

## Sample Identification

METRC Batch ID: N/A  
METRC Sample ID: 1A40A030000BFCD000006548  
METRC Source ID: 1A40A030000BFCD000006543  
ME Batch ID: MBZ-6543  
QBench Order ID: CRLC11349

## Sample Properties

Sample Weight (g): 6.95

## Product Characterization

Production Stage: Raw Plant Material  
Product Class: Buds  
Retail Name: Melonball-Z

## Results for Requested Analyses

Y = Tested "-" = Not Tested P = Pass F = Fail

Cannabinoid  
Profile

Y

Terpene  
Profile

Y

Heavy  
Metals

P

Residual  
Solvents

-

Pesticides

P

Total Yeast and  
Mold

P

Mycotoxins

P

Pathogenic  
Bacteria

P

Total  
Coliforms

P

Total Aerobic  
Bacteria

P

Entero-  
bacteriaceae

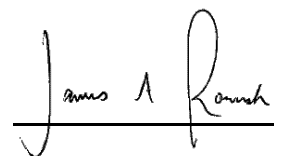
P

Vitamin E  
Acetate

-

## Authorization

Green Analytics Massachusetts is an Independent Testing Laboratory accredited to ISO/IEC 17025:2017 and licensed by the Massachusetts Cannabis Control Commission (CCC, # IL281277). Analytical methods and best-practices used are in compliance with the CCC's Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for MA Registered Medical Marijuana Dispensaries. The net/gross weight of the sample received was verified and all analyses were conducted at the GAMA laboratory. Quality control checks were prepared at known concentrations and run alongside batched client samples. Results presented here pertain to the sample received and relate only to items tested per sub-sampling SOP-071-MA. This Analytical Report shall not be reproduced except in full without GAMA approval. Where statements of conformity are reported ('pass' vs. 'fail'), the simple acceptance decision rule is applied, however the measurement uncertainty associated with the test method applied (not displayed in this simplified report) may impact the certainty with which a statement of conformity is made. This simplified report may not display all test methods' limits of detection (LODs), however this data is also available upon request.



James Roush  
Laboratory Director

## Cannabinoid Profile

Metrc ID Tag: 1A40A030000BFCD000006548

Test ID: #1032927

Analysis Date: 03/30/2025

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	18.514	185.14
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.040	2.275	22.75
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	1.176	11.76
Cannabigerol (CBG)	0.040	0.301	3.01
Cannabidivarin (CBDV)	0.040	ND	ND
Tetrahydrocannabivarin (THCV)	0.040	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.040	ND	ND
<b>Total THC</b>		<b>18.511</b>	<b>185.11</b>
<b>Total CBD</b>		<b>ND</b>	<b>ND</b>
<b>Total Cannabinoids</b>		<b>22.266</b>	<b>222.66</b>

Total THC: Δ9-THC + (THCA \* 0.877)

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: 1A40A030000BFCD000006548

Test ID: #1032930

Analysis Date: 03/31/2025

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**

Analyte	LOQ (ppb)	Result (ppb)	Limit	Pass/Fail
Total Arsenic	132.9	ND	200	PASS
Cadmium	131.7	ND	200	PASS
Total Mercury	88.0	BLQ	100	PASS
Lead	175.8	ND	500	PASS

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

## PCR Microbial Contaminants Analysis

Metrc ID Tag: 1A40A030000BFCD000006548

Test IDs: 1032932, 1032933, 1032934, 1032935

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**

Analyte	Result	Analysis Date	Limit	Finding
Total Yeast and Mold (TYM)	ND	03/31/2025	10000	PASS
Total Viable Aerobic Bacteria (TAC)	292	03/31/2025	100000	PASS
Total Coliforms (TC)	ND	03/31/2025	1000	PASS
Enterobacteriaceae (EB)	ND	03/31/2025	1000	PASS

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

## Pathogenic Bacteria Results

Metrc Id Tag: 1A40A030000BFCD000006548

Test IDs: 1032936, 1032937

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	04/01/2025	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	04/01/2025	Detection in 1.0 g	PASS

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

## Mycotoxins Results

Metrc ID Tag: 1A40A030000BFCD000006548

Test ID: #1032931

Analysis Date: 03/31/2025

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: µg/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

Metrc ID Tag: 1A40A030000BFCD000006548

Test ID: #1032929

Analysis Date: 03/31/2025

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	10.0	ND	10	PASS
Bifenthrin	10.0	ND	10	PASS
Cyfluthrin	10.0	ND	10	PASS
Etoxazole	10.0	ND	10	PASS
Imazalil	10.0	ND	10	PASS
Imidacloprid	10.0	ND	10	PASS
Myclobutanil	10.0	ND	10	PASS
Spiromesifen	10.0	ND	10	PASS
Trifloxystrobin	10.0	ND	10	PASS

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

## Terpenes Profile

Metrc ID Tag: 1A40A030000BFCD000006548

Test ID: #1032928

Analysis Date: 03/31/2025

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)
α-Pinene	0.01	0.452	4.52
Camphene	0.01	0.011	0.11
Sabinene	0.01	ND	ND
β-Pinene	0.01	0.121	1.21
β-Myrcene	0.01	2.589	25.89
Phellandrene	0.01	ND	ND
Carene	0.01	ND	ND
α-Terpinene	0.01	ND	ND
D-Limonene	0.01	0.205	2.05
Eucalyptol	0.01	BLQ	BLQ
Ocimene	0.01	0.845	8.45
γ-Terpinene	0.01	BLQ	BLQ
Sabinene Hydrate	0.01	ND	ND
Terpinolene	0.01	BLQ	BLQ
Fenchone	0.01	BLQ	BLQ
Linalool	0.01	0.214	2.14
Fenchol	0.01	0.024	0.24
Camphor	0.01	ND	ND
Isoborneol	0.01	ND	ND
Borneol	0.02	BLQ	BLQ
Menthhol	0.01	ND	ND
Terpineol	0.01	0.038	0.38
Nerol	0.01	ND	ND
Pulegone	0.01	ND	ND
Geraniol	0.01	BLQ	BLQ
Geranyl Acetate	0.01	ND	ND
α-Cedrene	0.01	ND	ND
Caryophyllene	0.01	0.314	3.14
α-Humulene	0.01	0.081	0.81
Valencene	0.01	ND	ND
cis-Nerolidol	0.01	ND	ND
trans-Nerolidol	0.01	ND	ND
Caryophyllene Oxide	0.01	0.011	0.11
Guaiol	0.01	ND	ND
Cedrol	0.01	ND	ND
α-Bisabolol	0.01	BLQ	BLQ
<b>Total Terpenes</b>		<b>4.905</b>	<b>49.05</b>

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