green analytics
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Analytical Report

GAMA Report ID: BOTP-83670
Report Submitted: 1/14/2025

Client Info	
The Botanist, Inc.	
32 Chocksett Road Sterling, MA 01564	
License:	RMD905-P
Metrc Manifest:	2688001
Date Received:	1/10/2025

Sample Identification	
METRC Batch ID:	PA-CWAX-240108
METRC Sample ID:	1A40A010000106A000083670
METRC Source ID:	1A40A010000106A000083669
ME Batch ID:	N/A
QBench Order ID:	BOTP10382

Sample Properties	
Sample Weight (g):	5.06

Product Characterization	
Production Stage:	Solvent Based Concentrate
Product Class:	Resin
Extraction Solvent:	Butane
Retail Name:	M00003802719: Bulk Concentrate - Cured Resin - Poison Apple Wax

Results for Requested Analyses — Y = Tested "-" = Not Tested P = Pass F = Fail

Cannabinoid Profile	Y	Terpene Profile	Y	Heavy Metals	P	Residual Solvents	P	Pesticides	-	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: 1A40A010000106A000083670
Test ID: #952969
Analysis Date: 01/12/2025

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)	0.200	76.820	768.20
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.200	6.708	67.08
Cannabidiolic acid (CBDA)	0.200	ND	ND
Cannabidiol (CBD)	0.200	ND	ND
Cannabinol (CBN)	0.200	ND	ND
Cannabichromene (CBC)	0.200	ND	ND
Cannabigerolic acid (CBGA)	0.200	2.489	24.89
Cannabigerol (CBG)	0.200	0.448	4.48
Cannabidivarin (CBDV)	0.200	ND	ND
Tetrahydrocannabivarin (THCV)	0.200	0.650	6.50
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.200	ND	ND
Total Cannabinoids		**87.115**	**871.15**

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

Heavy Metals Analysis

Metrc ID Tag: 1A40A010000106A000083670
Test ID: #952970
Analysis Date: 01/11/2025

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	124.8	ND	200	PASS
Cadmium	123.7	ND	200	PASS
Total Mercury	82.6	ND	100	PASS
Lead	165.1	BLQ	500	PASS

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

Plating Microbial Contaminants Analysis

Metrc Id Tag: 1A40A010000106A000083670
Test IDs:952973, 952974, 952975, 952976

Microbial contaminants were quantified using a 3M Petrifilm method and reported as colony forming units per gram (CFU/g). Samples were extracted and analyzed following GAMA SOP-700-MA. **- Limit units: CFU/g**

Analyte	Result	Analysis Date	Limit	Finding
Total Yeast and Mold (TYM)	ND	01/14/2025	1000	PASS
Total Viable Aerobic Bacteria (TAC)	ND	01/14/2025	10000	PASS
Total Coliforms (TC)	ND	01/14/2025	100	PASS
Enterobacteriaceae (EB)	ND	01/14/2025	100	PASS

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

Pathogenic Bacteria Results

Metrc Id Tag: 1A40A010000106A000083670
Test IDs:952977, 952978

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	01/13/2025	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	01/13/2025	Detection in 1.0 g	PASS

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

Mycotoxins Results — **Metrc ID Tag: 1A40A010000106A000083670**
Test ID: #952971 — **Analysis Date: 01/13/2025**

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	20.0	ND	20	PASS
Aflatoxin B2	20.0	ND	20	PASS
Aflatoxin G1	20.0	ND	20	PASS
Aflatoxin G2	20.0	ND	20	PASS
Ochratoxin A	20.0	ND	20	PASS

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

Residual Solvent Results — **Metrc ID Tag: 1A40A010000106A000083670**
Test ID: #952972 — **Analysis Date: 01/14/2025**

Residual Solvents were analyzed using a Headspace Autosampler coupled to a Gas Chromatograph equipped with a tandem Mass Spectrometer (HS-GC/MS/MS) following GAMA SOP-011-MA; SOP-067-MA; SOP-010-MA. **- Limit units: ppm**

Analyte	LOQ (ppm)	Result (ppm)	Limit	Pass/Fail
n-Butane	6.14	ND	12	PASS

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

Terpenes Profile | **Metrc ID Tag: 1A40A010000106A000083670**
Test ID: #952968 | **Analysis Date: 01/13/2025**

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	0.291	2.91
Camphene	0.01	0.025	0.25
Sabinene	0.01	ND	ND
β-Pinene	0.01	0.186	1.86
β-Myrcene	0.01	0.260	2.6
Phellandrene	0.01	0.030	0.3
Carene	0.01	ND	ND
α-Terpinene	0.01	0.041	0.41
D-Limonene	0.01	0.941	9.41
Eucalyptol	0.01	ND	ND
Ocimene	0.01	0.485	4.85
γ-Terpinene	0.01	0.041	0.41
Sabinene Hydrate	0.01	BLQ	BLQ
Terpinolene	0.01	0.872	8.72
Fenchone	0.01	0.032	0.32
Linalool	0.01	0.235	2.35
Fenchol	0.01	0.119	1.19
Camphor	0.01	BLQ	BLQ
Isoborneol	0.01	ND	ND
Borneol	0.02	0.042	0.42
Menthol	0.01	ND	ND
Terpineol	0.01	0.186	1.86
Nerol	0.01	ND	ND
Pulegone	0.01	ND	ND
Geraniol	0.01	ND	ND
Geranyl Acetate	0.01	ND	ND
α-Cedrene	0.01	ND	ND
Caryophyllene	0.01	0.461	4.61
α-Humulene	0.01	0.138	1.38
Valencene	0.01	ND	ND
cis-Nerolidol	0.01	ND	ND
trans-Nerolidol	0.01	0.040	0.4
Caryophyllene Oxide	0.01	0.055	0.55
Guaiol	0.01	0.165	1.65
Cedrol	0.01	ND	ND
α-Bisabolol	0.01	0.099	0.99
Total Terpenes		**4.744**	**47.44**

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