

Analytical Report

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Client Info

The Botanist, Inc.
32 Chocksett Road Sterling, MA 01564
License: RMD905-C

Metrc Manifest: 2593945 Date Received: 11/19/2024

Sample Identification

METRC Batch ID: KZ-240917-F3H17-3

METRC Sample ID: 1A40A010000106B000014884 METRC Source ID: 1A40A010000106B000014880

ME Batch ID: N/A QBench Order ID: BOTC9811

Sample Properties

Sample Weight (g): 7 Moisture Content (%)¹: 9.18

1 - Laboratory determined value

Product Characterization

Production Stage: Raw Plant Material

Product Class: Buds

Retail Name: M00003359711: Bulk Flower - Smalls - Kazuma

Results for Requested Analyses

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

Cannabinoid Y Profile Terpene Profile Heavy Metals

Residual Solvents Pesticides P

Total Yeast and Mold

Mycotoxins P

Pathogenic P

Total P

Total Aerobic Bacteria

Enterobacteriaceae 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-GA. 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



Analytical Report

Cannabinoid Profile Metrc ID Tag: 1A40A010000106B000014884
Test ID: #901690 Analysis Date: 11/20/2024

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

Cannabinoid	LOQ (%)	Result (%)	Result (mg/g)	
Tetrahydrocannabinolic acid (THCA)	0.040	24.892	248.92	
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.040	0.654	6.54	
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	0.434	4.34	
Cannabigerol (CBG)	0.040	0.281	2.81	
Cannabidivarin (CBDV)	0.040	ND	ND	
Tetrahydrocannabivarin (THCV)	0.040	ND	ND	
$\Delta 8$ -Tetrahydrocannabinol ($\Delta 8$ -THC)	0.040	ND	ND	
Total THC		22.485	224.85	
Total CBD		ND	ND	
Total Cannabinoids		26.261	262.61	

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: 1A40A010000106B000014884

 Test ID: #901694
 Analysis Date: 11/21/2024

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

Analyte	LOQ (ppb)	Result (ppb)	Limit	Pass/Fail		
Total Arsenic	151.4	ND	200	PASS		
Cadmium	151.4	ND	200	PASS		
Total Mercury	75.7	BLQ	100	PASS		
Lead	151.4	ND	500	PASS		
Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.						

Microbial Contaminants Analysis Metrc Id Tag: 1A40A010000106B000014884
Test IDs:901696, 901695, 901698, 901697

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-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA. - Limit units: CFU/g

Analyte	Result (CFU/g)	Analysis Date	Limit (CFU/g)	Finding	
Total Yeast and Mold (TYM)	ND	11/20/2024	10000	PASS	
Total Viable Aerobic Bacteria (TAC)	12	11/20/2024	100000	PASS	
Total Coliforms (TC)	ND	11/20/2024	1000	PASS	
Enterobacteriaceae (EB)	ND	11/20/2024	1000	PASS	
Note "NT": Not Tested: "ND": Not Detected.					

METRC Sample ID: 1A40A010000106B000014884 Retail Name: M00003359711: Bulk Flower - Smalls - Kazuma



Analytical Report

Pathogenic Bacteria Results Test IDs:901699, 901700 Metrc Id Tag: 1A40A010000106B000014884

The presence or absence of STEC E. coli and Salmonella spp in the sample was determined using a PCR technique. Samples were incubated for a minimum of 18 hours prior to DNA extraction following GAMA SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA. - Limit units: CFU/g

Analyte	Result	Analysis Date	Limit	Finding	
STEC E. Coli	Not Detected in 1g	11/21/2024	Detection in 1.0 g	PASS	
Salmonella spp.	Not Detected in 1g	11/21/2024	Detection in 1.0 g	PASS	
Note "NT": Not Tested; "ND": Not De	etected.				

 Mycotoxins Results
 Metrc ID Tag: 1A40A010000106B000014884

 Test ID: #901693
 Analysis Date: 11/24/2024

Mycotoxins were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-GA; SOP-062-GA; SOP-070-GA. - 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		
lote "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.						

 Pesticides Results
 Metrc ID Tag: 1A40A010000106B000014884

 Test ID: #901692
 Analysis Date: 11/24/2024

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

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



Terpenes Profile Metrc ID 7
Test ID: #901691

Metrc ID Tag: 1A40A010000106B000014884 Analysis Date: 11/20/2024

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	0.181	1.81	
Camphene	0.01	0.025	0.25	
Sabinene	0.01	ND	ND	
β-Pinene	0.01	0.143	1.43	
β-Myrcene	0.01	0.056	0.56	
Phellandrene	0.01	ND	ND	
Carene	0.01	ND	ND	
α-Terpinene	0.01	ND	ND	
D-Limonene	0.01	0.837	8.37	
Eucalyptol	0.01	ND	ND	
Ocimene	0.01	0.094	0.94	
γ-Terpinene	0.01	ND	ND	
Sabinene Hydrate	0.01	ND	ND	
Terpinolene	0.01	0.010	0.1	
Fenchone	0.01	ND	ND	
Linalool	0.01	0.123	1.23	
Fenchol	0.01	0.130	1.3	
Camphor	0.01	ND	ND	
Isoborneol	0.01	ND	ND	
Borneol	0.02	BLQ	BLQ	
Menthol	0.01	ND	ND	
Terpineol	0.01	0.178	1.78	
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	0.520	5.2	
α-Humulene	0.01	0.171	1.71	
Valencene	0.01	ND	ND	
cis-Nerolidol	0.01	ND	ND	
trans-Nerolidol	0.01	ND	ND	
Caryophyllene Oxide	0.01	BLQ	BLQ	
, , , Guaiol	0.01	ND	ND	
Cedrol	0.01	ND	ND	
α-Bisabolol	0.01	0.060	0.6	
Total Terpenes		2.528	25.28	

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

Moisture Profile Test ID: #901701		Metrc ID Tag: 1A40A010000106B000014884 Analysis Date: 11/20/2024
Moisture content analysis utilizin	g Moisture Balance (MB; SOP-055-MA)	
Analyte	Result (%)	
Moisture	9.18	_
Note "NT": Not Tested; "ND": Not Detected	"LOQ": Limit of Quantitation; "BLQ": Below LOQ.	