Green Analytics

Analytical Report

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GAMA Report ID: BOTC-10289
Report Submitted: 2/14/2024

[B] Client Info	
The Botanist, Inc.	
32 Chocksett Road Sterling, MA 01564	
License:	RMD905-C
Metrc Manifest:	2070626
Date Received:	2/9/2024

[C] Sample Identification	
METRC Batch ID:	GRGV-231205-F1H6-2
METRC Sample ID:	1A40A010000106B000010289
METRC Source ID:	1A40A010000106B000010285
ME Batch ID:	N/A
QBench Order ID:	BOTC5907

[D] Sample Properties	
Sample Weight (g):	7

[E] Product Characterization	
Production Stage:	Raw Plant Material
Product Class:	Buds
Retail Name:	M00003143406: Bulk Flower - Smalls - Grape Guava

[F] 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	-

[G] 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. 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.

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A2LA ACCREDITED
CERT #s 4356.04 ; 4356.05

Kimberly Ross, PhD
Laboratory Director

[H] Cannabinoid Profile | Metrc Id Tag: 1A40A010000106B000010289 | Analysis Date: 02/11/2024
Datafile: BOTC-10289_1A40A010000106B000010289_533316_POTENCY_A_20240210_RP_AP_01_2102024_039.txt | Analyst(s): NG

Cannabinoids were analyzed using a High Performance Liquid Chromatograph equipped with a Photodiode Array Detector (HPLC-PDA) following SHMA SOP-002-GA; SOP-025-GA; SOP-073-GA. | Test ID: #533316

Cannabinoid	LOQ (%)	%	mg/g
Tetrahydrocannabinolic acid (THCA)	0.097	25.620	256.2
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.121	BLQ	BLQ
Cannabidiolic acid (CBDA)	0.126	ND	ND
Cannabidiol (CBD)	0.120	ND	ND
Cannabinol (CBN)	0.110	ND	ND
Cannabichromene (CBC)	0.110	ND	ND
Cannabigerolic acid (CBGA)	0.114	0.762	7.62
Cannabigerol (CBG)	0.109	0.524	5.24
Cannabidivarin (CBDV)	0.110	ND	ND
Tetrahydrocannabivarin (THCV)	0.110	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.110	ND	ND
Total Cannabinoids		**26.906**	**269.06**

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification.

[I] Heavy Metals Analysis | Metrc Id Tag: 1A40A010000106B000010289 | Analysis Date: 02/12/2024
Datafile: DIG-20240211_SG BOTC-10289 | Analyst(s): RD

Heavy Metals were analyzed using an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) following SHMA SOP-021-GA; SOP-061-GA; SOP-072-GA. **- Limit units: ppb** | Test ID: #533319

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	BLQ	500	PASS

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification.

[J] Microbial Contaminants Analysis | Metrc Id Tag: 1A40A010000106B000010289 | Analyst(s): GC

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 SHMA SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA. **- Limit units: CFU/g** | Test IDs: 533327, 533326, 533325, 533322

Analyte	Result (CFU/g)	Datafile	Analysis Date	Limit (CFU/g)	Finding
Total Yeast and Mold (TYM)	ND	PCR-20240210_D1_TYM.pcrd.xlsx	02/11/2024	10000	PASS
Total Viable Aerobic Bacteria (TAC)	ND	PCR-20240210_D1_TAC.pcrd.xlsx	02/11/2024	100000	PASS
Total Coliforms (TC)	ND	PCR-20240210_D1_COL.pcrd.xlsx	02/11/2024	1000	PASS
Enterobacteriaceae (EB)	ND	PCR-20240210_D1_BTGN.pcrd.xlsx	02/11/2024	1000	PASS

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

[K] Pathogenic Bacteria Results | Metrc Id Tag: 1A40A010000106B000010289 | Analyst(s): GC

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 SHMA SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA. **- Limit units: CFU/g** | Test IDs: 533323, 533324

Analyte	Result	Datafile	Analysis Date	Limit	Finding
STEC E. Coli	Not Detected in 1g	PCR-20240211_EP_D2.pcrd.xlsx	02/11/2024	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	PCR-20240211_EP_D2.pcrd.xlsx	02/11/2024	Detection in 1.0 g	PASS

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

[L] Mycotoxins Results | Metrc Id Tag: 1A40A010000106B000010289 | Analysis Date: 02/12/2024
Datafile: DataPGMY_B_20240211_SD_02.wiff) | Analyst(s): AD

Mycotoxins were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following SHMA SOP-002-GA; SOP-062-GA; SOP-070-GA. **- Limit units: µg/kg** | Test ID: #533321

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; "BLQ": Below limit of Quantification.

[N] Pesticides Results | Metrc Id Tag: 1A40A010000106B000010289 | Analysis Date: 02/12/2024
Datafile: DataPGMY_B_20240211_SD_02.wiff) | Analyst(s): AD

Pesticides were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following SHMA SOP-002-GA; SOP-062-GA; SOP-070-GA. **- Limit units: ppb** | Test ID: #533320

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; "BLQ": Below limit of Quantification.

[P] Terpenes Profile | Metrc Id Tag: 1A40A010000106B000010289 | Analysis Date: 02/13/2024
Datafile: BOTC-10289_1A40A010000106B000010289_533318_717-TP-20240210_AP_01_2102024_18.txt | Analyst(s): BK

Terpenes were analyzed using a Liquid Injection Autosampler coupled to a Gas Chromatograph equipped with a tandem Mass Spectrometer (GC/MS/MS) following SHMA SOP-011-GA; SOP-067-GA; SOP-010-GA. | Test ID: #533318

Analyte	LOQ (%)	Result (%)	Result (mg/g)
α-Pinene	0.01	0.064	0.64
Camphene	0.01	0.051	0.51
β-Pinene	0.01	0.087	0.87
β-Myrcene	0.01	0.338	3.38
D-Limonene	0.01	0.577	5.77
Terpinolene	0.01	0.033	0.33
Linalool	0.01	0.079	0.79
Fenchol	0.01	0.065	0.65
Terpineol	0.01	0.082	0.82
Caryophyllene	0.01	0.364	3.64
α-Humulene	0.01	0.108	1.08
Valencene	0.01	0.063	0.63
Caryophyllene Oxide	0.01	0.060	0.6
α-Bisabolol	0.01	0.064	0.64
Total Terpenes		**2.035**	**20.35**

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification.

- End of Analytical Report -