

40 Speen St., Suite #301
Framingham, MA 01701
Phone: 508-465-3470 email: lab-ma@greenanalyticsllc.com

GAMA Report ID: HIPC-04517
Report Submitted: 4/3/2024

Client Info

Highmark Provisions, LLC
201 Summer Street Holliston, MA 01746
License: MC283492
Metc Manifest: 2156214
Date Received: 3/29/2024

Sample Identification

METRC Batch ID: GRG-03042024-F1-AB
METRC Sample ID: 1A40A030000B221000004517
METRC Source ID: 1A40A030000B221000004488
ME Batch ID: N/A
QBench Order ID: HIPC6533

Sample Properties

Sample Weight (g): 6.5

Product Characterization

Production Stage: Raw Plant Material
Product Class: Buds
Retail Name: Grape Glaze

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. 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.



Kimberly Ross, PhD

Kimberly Ross, PhD
Laboratory Director

Cannabinoid Profile Test ID: #594033	Metric Id Tag: 1A40A030000B221000004517 Analysis Date: 04/01/2024
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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 (%)	%	mg/g
Tetrahydrocannabinolic acid (THCA)	0.097	27.787	277.87
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.121	1.168	11.68
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	1.392	13.92
Cannabigerol (CBG)	0.109	0.465	4.65
Cannabidivarin (CBDV)	0.110	ND	ND
Tetrahydrocannabivarin (THCV)	0.110	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.110	ND	ND
Total Cannabinoids		30.812	308.12

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

Heavy Metals Analysis Test ID: #594036	Metric Id Tag: 1A40A030000B221000004517 Analysis Date: 04/01/2024
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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; "BLQ": Below limit of Quantification.

Microbial Contaminants Analysis Test IDs: 594044, 594043, 594042, 594039	Metric Id Tag: 1A40A030000B221000004517
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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	04/01/2024	10000	PASS
Total Viable Aerobic Bacteria (TAC)	ND	04/01/2024	100000	PASS
Total Coliforms (TC)	ND	04/01/2024	1000	PASS
Enterobacteriaceae (EB)	ND	04/01/2024	1000	PASS

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

Pathogenic Bacteria Results Test IDs: 594040, 594041	Metric Id Tag: 1A40A030000B221000004517
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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	04/01/2024	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	04/01/2024	Detection in 1.0 g	PASS

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

Mycotoxins Results	Metric Id Tag: 1A40A030000B221000004517
Test ID: #594038	Analysis Date: 04/03/2024

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: 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; "BLQ": Below limit of Quantification.

Pesticides Results	Metric Id Tag: 1A40A030000B221000004517
Test ID: #594037	Analysis Date: 04/03/2024

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; "BLQ": Below limit of Quantification.

Terpenes Profile	Metric Id Tag: 1A40A030000B221000004517
Test ID: #594035	Analysis Date: 04/02/2024

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-011-GA; SOP-067-GA; SOP-010-GA.

Analyte	LOQ (%)	Result (%)	Result (mg/g)
α-Pinene	0.01	0.486	4.86
β-Pinene	0.01	0.128	1.28
β-Myrcene	0.01	2.402	24.02
Limonene	0.01	0.150	1.5
Terpinolene	0.01	0.013	0.13
Linalool	0.01	0.219	2.19
Caryophyllene	0.01	0.360	3.6
α-Humulene	0.01	0.078	0.78
α-Bisabolol	0.01	0.057	0.57
Total Terpenes		3.893	38.93

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

- End of Analytical Report -