Steep Hill Massachusetts

Analytical Report

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Framingham, MA 01701
Lab: 508-465-3470 email: lab-ma@greenanalyticsllc.com

SHMA Report ID: HIPC-01894
Report Submitted: 9/30/2023

[B] Client Info

Highmark Provisions, LLC
201 Summer Street
Holliston, MA 01746

License:	MC283492
Metrc Manifest:	1832406
Date Received:	9/25/2023

[C] Sample Identification

METRC Batch ID:	WUG-08292023-F1-BD
METRC Sample ID:	1A40A030000B221000001894
METRC Source ID:	1A40A030000B221000001874
ME Batch ID:	NA

[D] Sample Properties

Sample Weight (g):	6.5
Serving Size (g):	NA

[E] Product Characterization

Production Stage:	Finished Plant Material
Product Class:	Flower
Ingestion Only:	---
Extraction Solvent:	---
Retail Name:	Why U Gelly

[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

Steep Hill 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. Where statements of conformity are reported ('pass' vs. 'fail'), the simple acceptance decision rule is applied.

The net/gross weight of the sample received was verified and all analyses were conducted at the SHMA laboratory. 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 SHMA approval.

ACCREDITED
CERT #s 4356.04 ; 4356.05

Kimberly Ross, PhD
Laboratory Director

Steep Hill Massachusetts

METRC Sample ID: 1A40A030000B221000001894

Item Name: Why U Gelly

[H] Cannabinoid Profile

Metrc ID Tag: 1A40A030000B221000001894 Analysis Date: 09/27/23

Datafile: HIPC-01894_1A40A030000B221000001894_404174_POTENCY_A_20230926_GL_01_9262023_021.lc Analyst(s): NK

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.

Cannabinoid	LOQ (%)	Result (%)	Result (mg/g)	Result (mg/serv)
Tetrahydrocannabinolic acid (THCA)	0.0967	23.9523	239.523	N/A
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.1206	0.8191	8.191	N/A
Cannabidiolic acid (CBDA)	0.1263	ND	ND	N/A
Cannabidiol (CBD)	0.1198	ND	ND	N/A
Cannabinol (CBN)	0.1101	ND	ND	N/A
Cannabichromene (CBC)	0.1096	ND	ND	N/A
Cannabigerolic acid (CBGA)	0.1135	0.3853	3.853	N/A
Cannabigerol (CBG)	0.1089	0.1630	1.630	N/A
Cannabidivarin (CBDV)	0.1097	ND	ND	N/A
Tetrahydrocannabivarin (THCV)	0.1098	ND	ND	N/A
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.1096	ND	ND	N/A
Total Available Cannabinoids	-	25.3197	253.197	-

Note "NT": Not Tested; "ND": Not Detected; "BLQ": Below limit of Quantification. Percentage dry-weight-basis.

[I] Heavy Metals Analysis

Metrc ID Tag: 1A40A030000B221000001894 Analysis Date: 09/28/23

Datafile: HM_B_20230928_TH_SD\DIG-20230926_VP HIPC-01894.192 Analyst(s): TH

Heavy Metals were measured using an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) following SHMA SOP-021-GA; SOP-061-GA; SOP-072-GA.

	LOQ	Result	All Uses		Ingestion Only	
Analyte	(ppb)	(ppb)	Limit (ppb)	Finding	Limit (ppb)	Finding
Total Arsenic	151.4	BLQ	200.0	Pass	1500.0	NA
Cadmium	151.4	BLQ	200.0	Pass	500.0	NA
Total Mercury	75.7	BLQ	100.0	Pass	1500.0	NA
Lead	151.4	BLQ	500.0	Pass	1000.0	NA

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

[J] Microbial Contaminants Analysis

Metrc ID Tag: 1A40A030000B221000001894

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.

Analyte	Result (CFU/g)	Datafile	Analysis Date	Limit (CFU/g)	Finding
Total Coliforms (CC)	ND	PCR-20230925_COL	09/27/23	1.00E+03	Pass
Total Yeast and Mold (YM)	ND	PCR-20230925_TYM	09/27/23	1.00E+04	Pass
Total Viable Aerobic Bacteria (TAC)	1.16E+03	PCR-20230925_TAC	09/27/23	1.00E+05	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	ND	PCR-20230925_BTGN	09/27/23	1.00E+03	Pass

Note: "NT": Not Tested; "ND" Not Detected. Enterobacteriaceae is the family of bacteria also known as Bile-Tolerant Gram-Negative bacteria.

[K] Pathogenic Bacteria Results | Metrc ID Tag: 1A40A030000B221000001894 | Analysis Date: 09/27/23
Datafile: PCR-20230925_AC2_D2 | 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-700-MA; SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA.

Analyte	Result	Analysis Date	Limit	Finding
STEC E. coli	Not Detected	09/27/23	Detection in 1.0 g	Pass
Salmonella spp.	Not Detected	09/27/23	Detection in 1.0 g	Pass

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

[L] Mycotoxins Results | Metrc ID Tag: 1A40A030000B221000001894 | Analysis Date: 09/29/23
Datafile: (Path: D:\Analyst Data\Projects\SHMA 2023\PGMY_VEA\Data\DataPGMY_B_20230927_SD_01.v | Analyst(s): SD

Mycotoxins were measured using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (HPLC-MS/MS) following SHMA SOP-002-GA; SOP-062-GA; SOP-070-GA.

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding
Aflatoxin B1	10.0	ND	-	Tested
Aflatoxin B2	10.0	ND	-	Tested
Aflatoxin G1	10.0	ND	-	Tested
Aflatoxin G2	10.0	ND	-	Tested
Ochratoxin A	10.0	ND	-	Tested
Total Mycotoxins	-	ND	20.0	Pass

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

[M] Residual Solvent Results | Metrc ID Tag: NT | Analysis Date: NT
Datafile: NT | Analyst(s): NT

Residual Solvents were measured using a Headspace Sampler coupled to a Gas Chromatograph equipped with a tandem Mass Spectrometer (HS-GC-MS/MS) following SHMA SOP-011-GA; SOP-067-GA; SOP-010-GA.

Analyte	LOQ (ppm)	Result (ppm)	Limit (ppm)	Finding
Ethanol	NT	NT	NT	NT
Propane	NT	NT	NT	NT
iso-Butane	NT	NT	NT	NT
n-Butane	NT	NT	NT	NT
n-Pentane	NT	NT	NT	NT
Acetone	NT	NT	NT	NT

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

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[N] Pesticides Results | Metrc ID Tag: 1A40A030000B221000001894 | Analysis Date: 09/29/23

Datafile: (Path: D:\Analyst Data\Projects\SHMA 2023\PGMY_VEA\Data\DataPGMY_B_20230927_SD_01.v | Analyst(s): SD

Pesticides were measured using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (HPLC MS/MS) following SHMA SOP-002-GA; SOP-062-GA; SOP-070-GA.

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding
Bifenazate	5.0	ND	10 or detected	Pass
Bifenthrin	5.0	ND	10 or detected	Pass
Cyfluthrin	5.0	ND	10 or detected	Pass
Etoxazole	5.0	ND	10 or detected	Pass
Imazalil	5.0	ND	10 or detected	Pass
Imidacloprid	5.0	ND	10 or detected	Pass
Myclobutanil	5.0	ND	10 or detected	Pass
Spiromesifen	5.0	ND	10 or detected	Pass
Trifloxystrobin	5.0	ND	10 or detected	Pass

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

[O] Vitamin E Acetate Results | Metrc ID Tag: NT | Analysis Date: NT

Datafile: NT | Analyst(s): NT

Vitamin E Acetate was measured using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (HPLC MS/MS) following SHMA SOP-002-GA; SOP-062-MA; SOP-070-MA.

Analyte	LOD (ppb)	Result (ppb)	Limit (ppb)	Finding
Vitamin E Acetate	-	NT	-	NT

Note "NT": Not Tested; "LOD": Limit of Detection

[P] Terpenes Profile | Metrc ID Tag: 1A40A030000B221000001894 | Analysis Date: 9/27/2023

Datafile: HIPC-01894_1A40A030000B221000001894_404176_717-TP-20230926_GL_9262023_20.qgd | Analyst(s): AD

Terpenes were measured using liquid autosampler injection onto a Gas Chromatograph equipped with a tandem Mass Spectrometer (HS-GC-MS/MS) following SHMA SOP-011-GA; SOP-067-GA; SOP-010-GA.

Terpenes	LOD (%)	Result (%)	Result (mg/g)
alpha-Pinene	0.0006	0.3890	3.890
beta-Pinene	0.0004	0.2226	2.226
beta-Myrcene	0.0006	0.4040	4.040
Limonene	0.0005	1.1669	11.669
Terpinolene	0.0005	0.0329	0.329
Linalool	0.0003	0.1514	1.514
Caryophyllene	0.0008	0.6669	6.669
alpha-Humulene	0.0003	0.1960	1.960
Caryophyllene oxide	0.0017	0.0332	0.332
alpha-Bisabolol	0.0009	0.0294	0.294
Total Terpenes	-	3.2923	32.923

Note NT: Not Tested.

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METRC Sample ID: 1A40A030000B221000001894

Item Name: Why U Gelly

QA/QC Section

[Q] Cannabinoid QC — Analysis Date: 09/27/23
Datafile: LCS_POTENCY_A_20230926_GL_01_9262023_004.lcd — Analyst(s): NK

QC Notes: Quality control checks were prepared at known concentrations and run alongside batch samples.

Cannabinoid	Measured Conc. (mg/mL)	Expected Conc. (mg/mL)	% Recovery
Tetrahydrocannabinolic acid (THCA)	0.048	0.050	97%
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.048	0.050	95%
Cannabidiolic acid (CBDA)	0.049	0.050	99%
Cannabidiol (CBD)	0.051	0.050	101%
Cannabinol (CBN)	0.050	0.050	99%
Cannabichromene (CBC)	0.049	0.050	99%
Cannabigerolic acid (CBGA)	0.048	0.050	96%
Cannabigerol (CBG)	0.048	0.050	95%
Cannabidivarin (CBDV)	0.051	0.050	101%
Tetrahydrocannabivarin (THCV)	0.050	0.050	101%
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.049	0.050	97%

[R] Heavy Metals QC — Analysis Date: 09/28/23
Datafile: HM_B_20230928_TH_SD\DIG-20230926_VP LCS.173 — Analyst(s): TH

QC Notes: Quality control checks were prepared at known concentrations and run alongside batch samples.

Analyte	Measured Conc. (ppb)	Expected Conc. (ppb)	% Recovery
Total Arsenic	3.3	4.0	83%
Cadmium	3.2	4.0	80%
Total Mercury	3.2	4.0	81%
Lead	3.2	4.0	80%

[S] Microbial Contaminants QC — Analysis Date: 9/27/2023
Analyst(s): GC

QC Notes: Quality control checks are included with each run to assess the success of instrument run and polymerase chain reaction.

Target	Datafile	Positive Control Cq	Negative Control Cq	Finding
Total Coliforms (CC)	PCR-20230925_COL	13.83	N/A	Pass
Total Yeast and Mold (YM)	PCR-20230925_TYM	11.25	N/A	Pass
Total Viable Aerobic Bacteria (TAC)	PCR-20230925_TAC	14.94	N/A	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	PCR-20230925_BTGN	14.94	N/A	Pass
Expected Value		*Cq ≤ 35*	*>35/>30 (TAC) or N/A*	

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

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[T] Pathogenic Bacteria QC

Analysis Date: 9/27/2023

Analyst(s): GC

QC Notes: Quality control checks are included with each run to assess the success of instrument run and polymerase chain reaction.

Target	Datafile	Positive Control Cq	Negative Control Cq	Finding
STEC E. coli	PCR-20230925_AC2_D2	13.31	N/A	Pass
Salmonella spp.	PCR-20230925_AC2_D2	19.56	N/A	Pass
Expected Value		*Cq ≤ 35*	*Cq>35 or N/A*	

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

[U] Mycotoxins QC

Analysis Date: 09/29/23

Datafile: (Path: D:\Analyst Data\Projects\SHMA 2023\PGMY_VEA\Data\DataPGMY_B_20230927_SD_01.wiff

Analyst(s): SD

QC Notes: Quality control checks were prepared at known concentrations and run alongside batch samples.

Analyte	Measured Conc. (ppb)	Expected Conc. (ppb)	% Recovery
Aflatoxin B1	0.4	1.0	45%
Aflatoxin B2	0.7	1.0	70%
Aflatoxin G1	0.8	1.0	82%
Aflatoxin G2	0.6	1.0	66%
Ochratoxin A	1.3	1.0	135%

[V] Residual Solvent QC

Analysis Date: NT

Datafile: NT

Analyst(s): NT

QC Notes: Quality control checks were prepared at known concentrations and run alongside batch samples.

Analyte	Measured Conc. (ppm)	Expected Conc. (ppm)	% Recovery
Ethanol	NT	NT	NT
iso-Butane	NT	NT	NT
Propane	NT	NT	NT
n-Butane	NT	NT	NT
n-Pentane	NT	NT	NT
Acetone	NT	NT	NT

[W] Pesticides QC

Analysis Date: 09/29/23

Datafile: (Path: D:\Analyst Data\Projects\SHMA 2023\PGMY_VEA\Data\DataPGMY_B_20230927_SD_01.w

Analyst(s): SD

QC Notes: Quality control checks were prepared at known concentrations and run alongside batch samples.

Analyte	Measured Conc (ppb)	Expected Conc (ppb)	% Recovery	Finding
Bifenazate	0.8	0.9	84%	Pass
Bifenthrin	0.4	0.9	39%	Pass
Cyfluthrin	0.7	0.9	83%	Pass
Etoxazole	0.7	0.9	82%	Pass
Imazalil	0.9	0.9	96%	Pass
Imidacloprid	1.2	0.9	136%	Pass
Myclobutanil	0.7	0.9	82%	Pass
Spiromesifen	0.5	0.9	55%	Pass
Trifloxystrobin	0.6	0.9	64%	Pass

[X] Vitamin E Acetate QC	Analysis Date: NT
Datafile: NT	Analyst(s): NT

QC Notes: Quality control checks were prepared at known concentrations and run alongside batch samples.

Analyte	Observed Result	Expected Result	Finding
Vitamin E Acetate	NT	NT	NT

- End of Analytical Report -