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SHMA Report ID: ARLC-24202
Report Submitted: 6/6/2022



[B] Client Info	
ARL Healthcare	
177 John Vertente Blvd.	
New Bedford, MA 02745	
License:	RMD1085-C
Metrc Manifest:	1087422
Date Received:	5/31/2022

[C] Sample Identification	
METRC Batch ID:	Monkey Mints H5.17.22 F16 B5 T4
METRC Sample ID:	1A40A0100001AF5000024202
METRC Source ID:	1A40A0100001AF5000024213
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:	Monkey Mints Bulk Flower

[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	Enterobacteriaceae	P	Vitamin E Acetate	-

[G] Authorization	
<p>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.</p> <p>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.</p>	
<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>CERT #s 4356.04 ; 4356.05</p> <div style="text-align: right;">  James J. Kocis Laboratory Director </div>	

**[H] Cannabinoid Profile**

Metrc ID Tag: 1A40A0100001AF5000024202

Analysis Date: 06/03/22

Datafile: ARLC-24202_1A40A0100001AF5000024202_POTENCY_B_20220605_AS_01_652022_025.lcd

Analyst(s): AS

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.

<u>Cannabinoid</u>	<u>LOQ (%)</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Result (mg/serv)</u>
Tetrahydrocannabinolic acid (THCA)	0.0967	25.6728	256.728	N/A
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.1206	0.3823	3.823	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	1.3575	13.575	N/A
Cannabigerol (CBG)	0.1089	0.1398	1.398	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	-	27.5524	275.524	-

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

Percentage dry-weight-basis.

[I] Heavy Metals Analysis

Metrc ID Tag: 1A40A0100001AF5000024202

Analysis Date: 06/02/22

Datafile: HM_B_20220531_SD_TH_PP\DIG-20220531_EM ARLC-24202.090

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.

<u>Analyte</u>	<u>LOQ (ppb)</u>	<u>Result (ppb)</u>	<u>All Uses</u>		<u>Ingestion Only</u>	
			<u>Limit (ppb)</u>	<u>Finding</u>	<u>Limit (ppb)</u>	<u>Finding</u>
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: 1A40A0100001AF5000024202

Analyst(s): MG

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-700-MA; SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA.

<u>Analyte</u>	<u>Result (CFU/g)</u>	<u>Datafile</u>	<u>Analysis Date</u>	<u>Limit (CFU/g)</u>	<u>Finding</u>
Total Coliforms (CC)	ND	PCR-20220531_COL	06/03/22	1.00E+03	Pass
Total Yeast and Mold (YM)	9.22E+03	PCR-20220601_TYM	06/03/22	1.00E+04	Pass
Total Viable Aerobic Bacteria (TAC)	ND	PCR-20220531_TAC	06/03/22	1.00E+05	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	ND	PCR-20220531_BTGN	06/03/22	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: 1A40A0100001AF5000024202 Analysis Date: 06/03/22

Datafile: PCR-20220531_D2

Analyst(s): MG

The presence or absence of STEC E. coli and Salmonella spp. was determined by plating samples on selective chromogenic medium. Samples were incubated for a minimum of 18 hours prior to plating and analyzed following SHMA SOP-700-MA.

<u>Analyte</u>	<u>Result</u>	<u>Analysis Date</u>	<u>Limit</u>	<u>Finding</u>
STEC E. coli	Not Detected	06/03/22	Detection in 1.0 g	Pass
Salmonella spp.	Not Detected	06/03/22	Detection in 1.0 g	Pass

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

[L] Mycotoxins Results

Metrc ID Tag: 1A40A0100001AF5000024202 Analysis Date: 06/01/22

Datafile: D:\Analyst Data\Projects\SHMA\PGMY\Data\DataPGMY_A_20220531_JM_01.wiff (sample 36)

Analyst(s): LB

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.

<u>Analyte</u>	<u>LOQ (ppb)</u>	<u>Result (ppb)</u>	<u>Limit (ppb)</u>	<u>Finding</u>
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	-	0.0	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.

<u>Analyte</u>	<u>LOQ (ppm)</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>	<u>Finding</u>
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
Hydrocarbons (Total)	-	NT	NT	NT

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



Steep Hill Massachusetts

METRC Sample ID: 1A40A0100001AF5000024202

Item Name: Monkey Mints Bulk Flower

[N] Pesticides Results

Metrc ID Tag: 1A40A0100001AF5000024202 Analysis Date: 06/01/22

Datafile: D:\Analyst Data\Projects\SHMA\PGMY\Data\DataPGMY_A_20220531_JM_01.wiff (sample 36)

Analyst(s): LB

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	10.0	Pass
Bifenthrin	5.0	ND	10.0	Pass
Cyfluthrin	5.0	ND	10.0	Pass
Etoxazole	5.0	ND	10.0	Pass
Imazalil	5.0	ND	10.0	Pass
Imidacloprid	5.0	ND	10.0	Pass
Myclobutanil	5.0	ND	10.0	Pass
Spiromesifen	5.0	ND	10.0	Pass
Trifloxystrobin	5.0	ND	10.0	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

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	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: 1A40A0100001AF5000024202 Analysis Date: 6/5/2022

Datafile: ARLC-24202_1A40A0100001AF5000024202_717-20220531_EM_642022_73.qgd

Analyst(s): BK

Terpenes 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.

Terpenes	LOD (%)	Result (%)	Result (mg/g)
alpha-Pinene	0.0006	0.0338	0.338
beta-Pinene	0.0004	0.0472	0.472
beta-Myrcene	0.0006	0.3312	3.312
Limonene	0.0005	0.3864	3.864
Terpinolene	0.0005	0.0107	0.107
Linalool	0.0003	0.1313	1.313
Caryophyllene	0.0008	0.5379	5.379
alpha-Humulene	0.0003	0.2088	2.088
Caryophyllene oxide	0.0017	0.0354	0.354
alpha-Bisabolol	0.0009	0.0605	0.605
Total Terpenes	-	1.7832	17.832

Note NT: Not Tested.



QA/QC Section

[Q] Cannabinoid QC

Analysis Date: 06/03/22

Datafile: LCS_POTENCY_B_20220605_AS_01_652022_004.lcd

Analyst(s): AS

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

<u>Cannabinoid</u>	<u>Measured Conc. (mg/mL)</u>	<u>Expected Conc. (mg/mL)</u>	<u>% Recovery</u>
Tetrahydrocannabinolic acid (THCA)	0.049	0.046	108%
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.052	0.045	115%
Cannabidiolic acid (CBDA)	0.054	0.047	115%
Cannabidiol (CBD)	0.054	0.045	120%
Cannabinol (CBN)	0.052	0.045	115%
Cannabichromene (CBC)	0.052	0.045	114%
Cannabigerolic acid (CBGA)	0.051	0.045	113%
Cannabigerol (CBG)	0.053	0.046	115%
Cannabidivarin (CBDV)	0.056	0.045	125%
Tetrahydrocannabivarin (THCV)	0.055	0.045	120%
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.051	0.045	114%

[R] Heavy Metals QC

Analysis Date: 06/02/22

Datafile: HM_B_20220531_SD_TH_PP\DIG-20220531_EM LCS.063

Analyst(s): TH

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

<u>Analyte</u>	<u>Measured Conc. (ppb)</u>	<u>Expected Conc. (ppb)</u>	<u>% Recovery</u>
Total Arsenic	3.7	4.0	93%
Cadmium	3.8	4.0	96%
Total Mercury	4.8	4.0	120%
Lead	3.8	4.0	94%

[S] Microbial Contaminants QC

Analysis Date: 6/3/2022

Analyst(s): MG

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

<u>Target</u>	<u>Datafile</u>	<u>Positive Control Cq</u>	<u>Negative Control Cq</u>	<u>Finding</u>
Total Coliforms (CC)	PCR-20220531_COL	13	N/A	Pass
Total Yeast and Mold (YM)	PCR-20220601_TYM	14.78	N/A	Pass
Total Viable Aerobic Bacteria (TAC)	PCR-20220531_TAC	13.81	N/A	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	PCR-20220531_BTGN	15.11	N/A	Pass
<u>Expected Value</u>		<u>Cq ≤ 35</u>	<u>>35/>30 (TAC) or N/A</u>	

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

**[T] Pathogenic Bacteria QC**

Analysis Date: 6/3/2022

Analyst(s): MG

QC Notes: Quality control checks are included with each run to assess the success of sample plating.

<u>Target</u>	<u>Datafile</u>	<u>Positive Control Cq</u>	<u>Negative Control Cq</u>	<u>Finding</u>
<i>STEC E. coli</i>	PCR-20220531_D2	13.54	N/A	Pass
<i>Salmonella spp.</i>	PCR-20220531_D2	18.1	N/A	Pass
Expected Value		$Cq \leq 35$	$Cq > 35$ or N/A	

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

[U] Mycotoxins QC

Analysis Date: 06/01/22

Datafile: D:\Analyst Data\Projects\SHMA\PGMY\Data\DataPGMY_A_20220531_JM_01.wiff (sample 15)

Analyst(s): LB

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

<u>Analyte</u>	<u>Measured Conc. (ppb)</u>	<u>Expected Conc. (ppb)</u>	<u>% Recovery</u>
Aflatoxin B1	1.6	1.9	87%
Aflatoxin B2	2.1	1.9	111%
Aflatoxin G1	1.8	1.9	93%
Aflatoxin G2	1.7	1.9	90%
Ochratoxin A	1.6	1.9	82%

[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.

<u>Analyte</u>	<u>Measured Conc. (ppb)</u>	<u>Expected Conc. (ppb)</u>	<u>% Recovery</u>
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: 06/01/22

Datafile: D:\Analyst Data\Projects\SHMA\PGMY\Data\DataPGMY_A_20220531_JM_01.wiff (sample 36)

Analyst(s): LB

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

<u>Analyte</u>	<u>Measured Conc (ppb)</u>	<u>Expected Conc (ppb)</u>	<u>% Recovery</u>	<u>Finding</u>
Bifenazate	1.1	1.0	105%	Pass
Bifenthrin	0.6	1.0	56%	Pass
Cyfluthrin	1.0	1.0	96%	Pass
Etoxazole	1.0	1.0	97%	Pass
Imazalil	1.0	1.0	99%	Pass
Imidacloprid	1.0	1.0	96%	Pass
Myclobutanil	1.0	1.0	102%	Pass
Spiromesifen	1.0	1.0	98%	Pass
Trifloxystrobin	1.0	1.0	96%	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.

<u>Analyte</u>	<u>Observed Result</u>	<u>Expected Result</u>	<u>Finding</u>
Vitamin E Acetate	NT	NT	NT

- End of Analytical Report -