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SHMA Report ID: LZRC-09316

Report Submitted: 1/25/2024

[B] Client Info

Lazy River Products, LLC

145 Broadway Rd

Dracut, MA 01826

License: MC282085

Metrc Manifest: 2038508

Date Received: 1/22/2024

[C] Sample Identification

METRC Batch ID: ZC-F5-12262023

METRC Sample ID: 1A40A0300003459000009316

METRC Source ID: 1A40A0300003459000009315

ME Batch ID: NA

[D] Sample Properties

Sample Weight (g): 11.0

Serving Size (g): NA

[E] Product Characterization

Production Stage: Finished Plant Material

Product Class: Flower

Ingestion Only: ---

Extraction Solvent: ---

Retail Name: Zacks Cake

[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.



Kimberly Ross, PhD

Kimberly Ross, PhD
Laboratory Director

**[H] Cannabinoid Profile** Metrc ID Tag: 1A40A0300003459000009316 Analysis Date: 01/23/24

Datafile: LZRC-09316_1A40A0300003459000009316_A_516710_POTENCY_B_20240124_RP_JP_01_1242024_ 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.

<u>Cannabinoid</u>	<u>LOQ (%)</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Result (mg/serv)</u>
Tetrahydrocannabinolic acid (THCA)	0.0967	28.5283	285.283	N/A
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.1206	0.1285	1.285	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	0.7928	7.928	N/A
Cannabigerol (CBG)	0.1089	0.2031	2.031	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	-	29.6527	296.527	-

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

Percentage dry-weight-basis.

[I] Heavy Metals Analysis Metrc ID Tag: 1A40A0300003459000009316 Analysis Date: 01/24/24

Datafile: HM_A_20240123_TH_SD DIG-20240122_ZS LZRC-09316

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: 1A40A0300003459000009316

Analyst(s): JT

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.

<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-20240123_BTGN-COL	01/24/24	1.00E+03	Pass
Total Yeast and Mold (YM)	7.00E+01	PCR-20240123_TAC-TYM	01/24/24	1.00E+04	Pass
Total Viable Aerobic Bacteria (TAC)	ND	PCR-20240123_TAC-TYM	01/24/24	1.00E+05	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	ND	PCR-20240123_BTGN-COL	01/24/24	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: 1A40A0300003459000009316

Analysis Date: 01/24/24

Datafile: PCR-20240122_KAR_D2

Analyst(s): JT

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.

<u>Analyte</u>	<u>Result</u>	<u>Analysis Date</u>	<u>Limit</u>	<u>Finding</u>
STEC E. coli	Not Detected	01/24/24	Detection in 1.0 g	Pass
Salmonella spp.	Not Detected	01/24/24	Detection in 1.0 g	Pass

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

[L] Mycotoxins Results

Metrc ID Tag: 1A40A0300003459000009316

Analysis Date: 01/24/24

Datafile: D:\Analyst Data\Projects\SHMA 2023 PGMY_2\PGMY\Data\DataPGMY_A_20240122_BJ_01.wif

Analyst(s): AD

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	-	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.

<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

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



[N] Pesticides Results Metrc ID Tag: 1A40A0300003459000009316 Analysis Date: 01/24/24
 Datafile: D:\Analyst Data\Projects\SHMA 2023 PGMY_2\PGMY\Data\DataPGMY_A_20240122_BJ_01.wif Analyst(s): AD

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: 1A40A0300003459000009316 Analysis Date: 1/24/2024
 Datafile: LZRC-09316_1A40A0300003459000009316_514655_717-TP-20240122_AC_02_1232024_6.qg Analyst(s): BK

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	0.0514	0.514
beta-Pinene	0.0004	0.0675	0.675
beta-Myrcene	0.0006	0.2432	2.432
Limonene	0.0005	0.2441	2.441
Terpinolene	0.0005	0.0327	0.327
Linalool	0.0003	0.1789	1.789
Caryophyllene	0.0008	0.5986	5.986
alpha-Humulene	0.0003	0.1633	1.633
Caryophyllene oxide	0.0017	0.0716	0.716
alpha-Bisabolol	0.0009	0.1152	1.152
Total Terpenes	-	1.7665	17.665

Note NT: Not Tested.



QA/QC Section

[Q] Cannabinoid QC

Analysis Date: 01/23/24

Datafile: LCS_POTENCY_B_20240124_RP_JP_01_1242024_004.lcd

Analyst(s): NG

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)	0.048	0.050	95%
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.047	0.050	95%
Cannabidiolic acid (CBDA)	0.048	0.050	96%
Cannabidiol (CBD)	0.049	0.050	98%
Cannabinol (CBN)	0.048	0.050	96%
Cannabichromene (CBC)	0.048	0.050	95%
Cannabigerolic acid (CBGA)	0.046	0.050	92%
Cannabigerol (CBG)	0.046	0.050	93%
Cannabidivarin (CBDV)	0.048	0.050	97%
Tetrahydrocannabivarin (THCV)	0.048	0.050	96%
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.048	0.050	96%

[R] Heavy Metals QC

Analysis Date: 01/24/24

Datafile: HM_A_20240123_TH_SD DIG-20240122_ZS LCS

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	4.1	4.0	102%
Cadmium	3.6	4.0	91%
Total Mercury	4.1	4.0	103%
Lead	4.0	4.0	100%

[S] Microbial Contaminants QC

Analysis Date: 1/24/2024

Analyst(s): JT

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-20240123_BTGN-COL	12.97	N/A	Pass
Total Yeast and Mold (YM)	PCR-20240123_TAC-TYM	13.19	N/A	Pass
Total Viable Aerobic Bacteria (TAC)	PCR-20240123_TAC-TYM	14.91	N/A	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	PCR-20240123_BTGN-COL	14.36	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.



Steep Hill Massachusetts

METRC Sample ID: 1A40A0300003459000009316

Item Name: Zacks Cake

[T] Pathogenic Bacteria QC

Analysis Date: 1/24/2024

Analyst(s): JT

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-20240122_KAR_D2	14.75	N/A	Pass
Salmonella spp.	PCR-20240122_KAR_D2	15.76	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: 01/24/24

Datafile: D:\Analyst Data\Projects\SHMA 2023 PGMY_2\PGMY\Data\DataPGMY_A_20240122_BJ_01.wiff (s Analyst(s): AD

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	0.7	0.9	73%
Aflatoxin B2	0.5	0.9	59%
Aflatoxin G1	0.6	0.9	72%
Aflatoxin G2	0.7	0.9	79%
Ochratoxin A	0.7	0.9	80%

[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: 01/24/24

Datafile: D:\Analyst Data\Projects\SHMA 2023 PGMY_2\PGMY\Data\DataPGMY_A_20240122_BJ_01.wil Analyst(s): AD

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	0.7	0.9	75%	Pass
Bifenthrin	0.6	0.9	67%	Pass
Cyfluthrin	0.6	0.9	70%	Pass
Etoxazole	0.6	0.9	68%	Pass
Imazalil	0.7	0.9	75%	Pass
Imidacloprid	0.6	0.9	73%	Pass
Myclobutanil	0.7	0.9	79%	Pass
Spiromesifen	0.6	0.9	69%	Pass
Trifloxystrobin	0.7	0.9	77%	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 -