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SHMA Report ID: CURC-38029
Report Submitted: 10/20/2021




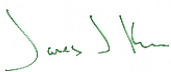
[B] Client Info	
Curaleaf Massachusetts, Inc.	
30 Worcester Rd	
Webster, MA 01570	
License:	RMD385-C
Metrc Manifest:	768303
Date Received:	10/12/2021

[C] Sample Identification	
METRC Batch ID:	210909CC.F8-1-D
METRC Sample ID:	1A40A0100000E11000038029
METRC Source ID:	1A40A0100000E11000032475
ME Batch ID:	NA

[D] Sample Properties	
Sample Weight (g):	7.0
Serving Size (g):	NA

[E] Product Characterization	
Production Stage:	Finished Plant Material
Product Class:	Flower
Ingestion Only:	---
Extraction Solvent:	---
Retail Name:	CL,Flower,(I)Concord Crush,,,Bulk

[F] Results for Requested Analyses						Y = Tested	"-" = Not Tested	P = Pass	F = Fail		
Cannabinoid Profile	Y	Terpene Profile	-	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.</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>	
  	
	
<p>James J. Kocis Laboratory Director</p>	



Steep Hill Massachusetts

METRC Sample ID: 1A40A0100000E11000038029

Item Name: CL,Flower,(I)Concord Crush,,,Bulk

[H] Cannabinoid Profile	Metrc ID Tag: 1A40A0100000E11000038029	Analysis Date: 10/16/21
Datafile: CURC-38029_POTENCY_A_20211013_LK_01_10132021_013.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)	0.097	17.328	173.28	N/A
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.121	0.170	1.70	N/A
Cannabidiolic acid (CBDA)	0.126	ND	ND	N/A
Cannabidiol (CBD)	0.120	ND	ND	N/A
Cannabinol (CBN)	0.110	ND	ND	N/A
Cannabichromene (CBC)	0.110	ND	ND	N/A
Cannabigerolic acid (CBGA)	0.114	0.345	3.45	N/A
Cannabigerol (CBG)	0.109	0.162	1.62	N/A
Cannabidivarin (CBDV)	0.110	ND	ND	N/A
Tetrahydrocannabivarin (THCV)	0.110	ND	ND	N/A
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.110	ND	ND	N/A
Total Available Cannabinoids	-	18.005	180.05	-

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

Percentage dry-weight-basis.

[I] Heavy Metals Analysis	Metrc ID Tag: 1A40A0100000E11000038029	Analysis Date: 10/12/21
Datafile: HM_A_20211016_SD_RB DIG-20211012_DJC_01 CURC-38029	Analyst(s): LB	

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	ND	200.0	Pass	1500.0	NA
Cadmium	151.4	ND	200.0	Pass	500.0	NA
Total Mercury	75.7	ND	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: 1A40A0100000E11000038029	Analyst(s): MG
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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 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-20211012_COL	10/14/21	1.00E+03	Pass
Total Yeast and Mold (YM)	2.22E+03	PCR-20211012_TYM	10/14/21	1.00E+04	Pass
Total Viable Aerobic Bacteria (TAC)	ND	PCR-20211012_TAC	10/14/21	1.00E+05	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	ND	PCR-20211012_BTGN	10/14/21	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: 1A40A0100000E11000038029 Analysis Date: 10/14/21

Datafile: PCR-20211012_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	10/14/21	Detection in 1.0 g	Pass
Salmonella spp.	Not Detected	10/14/21	Detection in 1.0 g	Pass

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

[L] Mycotoxins Results

Metrc ID Tag: 1A40A0100000E11000038029 Analysis Date: 10/19/21

Datafile: D:\Analyst Data\Projects\EVIO\Pesticides\Data\DataPGMY_A_20211018_JM_02.wiff (sample 19) Analyst(s): RK

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: 1A40A0100000E11000038029

Item Name: CL, Flower, (I) Concord Crush,,, Bulk

[N] Pesticides Results Metrc ID Tag: 1A40A0100000E11000038029 Analysis Date: 10/19/21
Datafile: D:\Analyst Data\Projects\EVIO\Pesticides\Data\DataPGMY_A_20211018_JM_02.wiff (sample 19 Analyst(s): RK

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
Etoazole	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: NT Analysis Date: NT
Datafile: NT Analyst(s): NT

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			
beta-Pinene			
beta-Myrcene			
Limonene			
Terpinolene			
Linalool			
Caryophyllene			
alpha-Humulene			
Caryophyllene oxide			
alpha-Bisabolol			
Total Terpenes	-	-	-

Note NT: Not Tested.



QA/QC Section

[Q] Cannabinoid QC

Analysis Date: 10/16/21

Datafile: LCS_POTENCY_A_20211013_LK_01_10132021_056.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)	0.043	0.046	94%
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.043	0.047	93%
Cannabidiolic acid (CBDA)	0.043	0.047	92%
Cannabidiol (CBD)	0.043	0.045	97%
Cannabinol (CBN)	0.044	0.046	97%
Cannabichromene (CBC)	0.046	0.045	102%
Cannabigerolic acid (CBGA)	0.044	0.047	95%
Cannabigerol (CBG)	0.050	0.045	111%
Cannabidivarin (CBDV)	0.043	0.045	97%
Tetrahydrocannabivarin (THCV)	0.045	0.047	97%
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.045	0.044	102%

[R] Heavy Metals QC

Analysis Date: 10/12/21

Datafile: HM_A_20211016_SD_RB DIG-20211012_DJC1 MS-CO20210125

Analyst(s): LB

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

<u>Analyte</u>	<u>Measured Conc.</u> <u>(ppb)</u>	<u>Expected Conc.</u> <u>(ppb)</u>	<u>% Recovery</u>
Total Arsenic	4.1	4.0	102%
Cadmium	4.2	4.0	105%
Total Mercury	4.0	4.0	100%
Lead	4.4	4.0	110%

[S] Microbial Contaminants QC

Analysis Date: 10/14/2021

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-20211012_COL	15.66	N/A	Pass
Total Yeast and Mold (YM)	PCR-20211012_TYM	17.79	N/A	Pass
Total Viable Aerobic Bacteria (TAC)	PCR-20211012_TAC	12.29	N/A	Pass
Bile-Tolerant Gram-Neg. Bacteria (BTGN)	PCR-20211012_BTGN	14.64	N/A	Pass
<u>Expected Value</u>		<u>Cq ≤ 35</u>	<u>Cq>35 or N/A</u>	

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



Steep Hill Massachusetts

METRC Sample ID: 1A40A0100000E11000038029

Item Name: CL,Flower,(l)Concord Crush,,,Bulk

[T] Pathogenic Bacteria QC

Analysis Date: 10/14/2021

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-20211012_D2	11.31	N/A	Pass
<i>Salmonella spp.</i>	PCR-20211012_D2	19.59	N/A	Pass
<u>Expected Value</u>		$Cq \leq 35$	$Cq > 35$ or N/A	

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

[U] Mycotoxins QC

Analysis Date: 10/19/21

Datafile: D:\Analyst Data\Projects\EVIO\Pesticides\Data\DataPGMY_A_20211018_JM_02.wiff (sample 4)

Analyst(s): RK

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	2.4	2.1	114%
Aflatoxin B2	2.4	2.1	117%
Aflatoxin G1	2.3	2.1	108%
Aflatoxin G2	2.2	2.1	104%
Ochratoxin A	1.9	2.1	90%

[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: 10/19/21

Datafile: D:\Analyst Data\Projects\EVIO\Pesticides\Data\DataPGMY_A_20211018_JM_02.wiff (sample 19)

Analyst(s): RK

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	1.0	1.0	103%	Pass
Bifenthrin	1.3	1.0	135%	Pass
Cyfluthrin	1.4	1.0	134%	Pass
Etoazole	1.1	1.0	113%	Pass
Imazalil	1.2	1.0	117%	Pass
Imidacloprid	1.1	1.0	104%	Pass
Myclobutanil	1.1	1.0	107%	Pass
Spiromesifen	0.9	1.0	89%	Pass
Trifloxystrobin	1.0	1.0	102%	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 -