Steep Hill Massachusetts

Analytical Report

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

SHMA Report ID: CURP-21780
Report Submitted: 6/29/2022

[B] Client Info

Curaleaf North Shore, Inc.
10 Industrial Way
Amesbury, MA 01913

License:	MP281300
Metrc Manifest:	1120363
Date Received:	6/24/2022

[C] Sample Identification

METRC Batch ID:	RTD.OMJ.220623
METRC Sample ID:	1A40A0300000326000021780
METRC Source ID:	1A40A0300000326000021779
ME Batch ID:	NA

[D] Sample Properties

Sample Weight (g):	358.0
Serving Size (g):	355.0

[E] Product Characterization

Production Stage:	Marijuana Infused Products
Product Class:	Infused Edible
Ingestion Only:	---
Extraction Solvent:	---
Retail Name:	B(RTD)-Orange Mango Jalapeno-5mg-H

[F] Results for Requested Analyses

Y = Tested "-" = Not Tested P = Pass F = Fail

Cannabinoid Profile	Y	Terpene Profile	-	Heavy Metals	-	Residual Solvents	-	Pesticides	-	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

James J. Kocis
Laboratory Director

Steep Hill Massachusetts

METRC Sample ID: 1A40A0300000326000021780

Item Name: B(RTD)-Orange Mango Jalapeno-5mg-H

[H] Cannabinoid Profile

Metrc ID Tag: 1A40A0300000326000021780 Analysis Date: 06/27/22

Datafile: CURP-21780_1A40A0300000326000021780_POTENCY_C_20220625_JM_01_6252022_017.lcd Analyst(s): LK

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)	0.0068	ND	ND	ND
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.0068	0.0015	0.015	5.325
Cannabidiolic acid (CBDA)	0.0071	ND	ND	ND
Cannabidiol (CBD)	0.0067	ND	ND	ND
Cannabinol (CBN)	0.0027	ND	ND	ND
Cannabichromene (CBC)	0.0027	ND	ND	ND
Cannabigerolic acid (CBGA)	0.0028	ND	ND	ND
Cannabigerol (CBG)	0.0027	ND	ND	ND
Cannabidivarin (CBDV)	0.0027	ND	ND	ND
Tetrahydrocannabivarin (THCV)	0.0027	ND	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.0027	ND	ND	ND
Total Available Cannabinoids	-	0.0015	0.015	5.325

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

[I] Heavy Metals Analysis

Metrc ID Tag: NT Analysis Date: NT

Datafile: NT Analyst(s): NT

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	NT	NT	200.0	NT	1500.0	NT
Cadmium	NT	NT	200.0	NT	500.0	NT
Total Mercury	NT	NT	100.0	NT	1500.0	NT
Lead	NT	NT	500.0	NT	1000.0	NT

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

[J] Microbial Contaminants Analysis

Metrc ID Tag: 1A40A0300000326000021780

Analyst(s): GC

Microbial contaminants were quantified using a 3M Petrifilm method and reported as colony forming units per gram (CFU/g). Samples were extracted and analyzed following SHMA SOP-700-MA.

Analyte	Result (CFU/g)	Datafile	Analysis Date	Limit (CFU/g)	Finding
Total Coliforms (CC)	ND	PLA-20220624_SD3	06/28/22	1.00E+03	Pass
Total Yeast and Mold (YM)	ND	PLA-20220624_SD3	06/28/22	1.00E+04	Pass
Total Viable Aerobic Bacteria (TAC)	ND	PLA-20220624_SD3	06/28/22	1.00E+05	Pass
Enterobacteriaceae (EB)	ND	PLA-20220624_SD3	06/28/22	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: 1A40A0300000326000021780 | Analysis Date: 06/28/22

Datafile: PLA-20220624_SD3 | Analyst(s): GC

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.

Analyte	Result	Analysis Date	Limit	Finding
STEC E. coli	Not Detected in 1g	06/28/22	Detection in 1.0 g	Pass
Salmonella spp.	Not Detected in 1g	06/28/22	Detection in 1.0 g	Pass

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

[L] Mycotoxins Results | Metrc ID Tag: 1A40A0300000326000021780 | Analysis Date: 06/27/22

Datafile: (Path: D:\Analyst Data\Projects\PG-MY Data\Data\DataPGMY_B_20220626_RB_01.wiff), (sampl | 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.

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding
Aflatoxin B1	6.0	ND	-	Tested
Aflatoxin B2	6.0	ND	-	Tested
Aflatoxin G1	6.0	ND	-	Tested
Aflatoxin G2	6.0	ND	-	Tested
Ochratoxin A	6.0	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.

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
Hydrocarbons (Total)	-	NT	NT	NT

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

[N] Pesticides 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	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding
Bifenazate	NT	NT	NT	NT
Bifenthrin	NT	NT	NT	NT
Cyfluthrin	NT	NT	NT	NT
Etoxazole	NT	NT	NT	NT
Imazalil	NT	NT	NT	NT
Imidacloprid	NT	NT	NT	NT
Myclobutanil	NT	NT	NT	NT
Spiromesifen	NT	NT	NT	NT
Trifloxystrobin	NT	NT	NT	NT

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

Note NT: Not Tested.

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METRC Sample ID: 1A40A0300000326000021780

Item Name: B(RTD)-Orange Mango Jalapeno-5mg-H

QA/QC Section

[Q] Cannabinoid QC — Analysis Date: 06/27/22
Datafile: LCS_POTENCY_C_20220625_JM_01_6252022_004.lcd — Analyst(s): LK

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)	0.045	0.046	98%
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.040	0.046	89%
Cannabidiolic acid (CBDA)	0.049	0.046	105%
Cannabidiol (CBD)	0.047	0.045	105%
Cannabinol (CBN)	0.051	0.045	113%
Cannabichromene (CBC)	0.047	0.045	105%
Cannabigerolic acid (CBGA)	0.040	0.046	87%
Cannabigerol (CBG)	0.047	0.046	104%
Cannabidivarin (CBDV)	0.048	0.045	107%
Tetrahydrocannabivarin (THCV)	0.046	0.046	101%
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.045	0.045	100%

[R] Heavy Metals 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. (ppb)	Expected Conc. (ppb)	% Recovery
Total Arsenic	NT	NT	NT
Cadmium	NT	NT	NT
Total Mercury	NT	NT	NT
Lead	NT	NT	NT

[S] Microbial Contaminants QC — Analysis Date: 6/28/2022
Analyst(s): GC

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

Target	Datafile	Positive Control Result	Negative Control Result	Finding
Total Coliforms (CC)	PLA-20220624_SD3	Detected	Not Detected	Pass
Total Yeast and Mold (YM)	PLA-20220624_SD3	Detected	Not Detected	Pass
Total Viable Aerobic Bacteria (TAC)	PLA-20220624_SD3	Detected	Not Detected	Pass
Enterobacteriaceae (EB)	PLA-20220624_SD3	Detected	Not Detected	Pass
Expected Value		*Detected*	*Not Detected*	

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

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METRC Sample ID: 1A40A0300000326000021780

Item Name: B(RTD)-Orange Mango Jalapeno-5mg-H

[T] Pathogenic Bacteria QC

Analysis Date: 6/28/2022
Analyst(s): GC

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

Target	Datafile	Positive Control Result	Negative Control Result	Finding
STEC E. coli	PLA-20220624_SD3	Detected	Not Detected	Pass
Salmonella spp.	PLA-20220624_SD3	Detected	Not Detected	Pass
Expected Value		*Detected*	*Not Detected*	

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

[U] Mycotoxins QC

Analysis Date: 06/27/22
Datafile: (Path: D:\Analyst Data\Projects\PG-MY Data\Data\DataPGMY_B_20220626_RB_01.wiff), (sample In
Analyst(s): LB

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	1.9	1.8	106%
Aflatoxin B2	2.4	1.8	133%
Aflatoxin G1	2.1	1.8	115%
Aflatoxin G2	2.1	1.8	115%
Ochratoxin A	1.7	1.8	92%

[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. (ppb)	Expected Conc. (ppb)	% 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: NT
Datafile: NT
Analyst(s): NT

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	NT	NT	NT	NT
Bifenthrin	NT	NT	NT	NT
Cyfluthrin	NT	NT	NT	NT
Etoxazole	NT	NT	NT	NT
Imazalil	NT	NT	NT	NT
Imidacloprid	NT	NT	NT	NT
Myclobutanil	NT	NT	NT	NT
Spiromesifen	NT	NT	NT	NT
Trifloxystrobin	NT	NT	NT	NT

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METRC Sample ID: 1A40A0300000326000021780

Item Name: B(RTD)-Orange Mango Jalapeno-5mg-H

[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 -