Steep Hill Massachusetts

Analytical Report

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Lab: 508-465-3470 email: lab-ma@greenanalyticsllc.com

SHMA Report ID: RISP-07077
Report Submitted: 12/23/2023

[B] Client Info

Rise Holdings, Inc
28 Appleton St.
Holyoke, MA 01040

License:	RMD645-P
Metrc Manifest:	1982106
Date Received:	12/19/2023

[C] Sample Identification

METRC Batch ID:	MA-ryVP-0751
METRC Sample ID:	1A40A01000010CD000207077
METRC Source ID:	1A40A01000010CD000207076
ME Batch ID:	NA

[D] Sample Properties

Sample Weight (g):	1.7
Serving Size (g):	NA

[E] Product Characterization

Production Stage:	Cannabis Resin & Concentrates
Product Class:	Vape
Ingestion Only:	---
Extraction Solvent:	---
Retail Name:	Vape Oil (300mg CART, ZC)

[F] Results for Requested Analyses

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

Cannabinoid Profile	-	Terpene Profile	-	Heavy Metals	P	Residual Solvents	-	Pesticides	-	Total Yeast and Mold	-
Mycotoxins	-	Pathogenic Bacteria	-	Total Coliforms	-	Total Aerobic Bacteria	-	Entero-bacteriaceae	-	Vitamin E Acetate	P

[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.

ilac-MRA A2LA ACCREDITED CERT #s 4356.04 ; 4356.05

Kimberly Ross, PhD
Laboratory Director

Steep Hill Massachusetts

METRC Sample ID: 1A40A01000010CD000207077

Item Name: Vape Oil (300mg CART, ZC)

[H] Cannabinoid Profile

Metrc ID Tag: NT | Analysis Date: NT

Datafile: NT | Analyst(s): NT

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)	NT	NT	NT	NT
Δ9-Tetrahydrocannabinol (Δ9-THC)	NT	NT	NT	NT
Cannabidiolic acid (CBDA)	NT	NT	NT	NT
Cannabidiol (CBD)	NT	NT	NT	NT
Cannabinol (CBN)	NT	NT	NT	NT
Cannabichromene (CBC)	NT	NT	NT	NT
Cannabigerolic acid (CBGA)	NT	NT	NT	NT
Cannabigerol (CBG)	NT	NT	NT	NT
Cannabidivarin (CBDV)	NT	NT	NT	NT
Tetrahydrocannabivarin (THCV)	NT	NT	NT	NT
Δ8-Tetrahydrocannabinol (Δ8-THC)	NT	NT	NT	NT
Total Available Cannabinoids	-	-	-	-

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

[I] Heavy Metals Analysis

Metrc ID Tag: 1A40A01000010CD000207077 | Analysis Date: 12/23/23

Datafile: HM_A_20231222_JG_TH DIG-20231219_AP3 RISP-07077 | 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	124.4	ND	200.0	Pass	1500.0	NA
Cadmium	82.9	ND	200.0	Pass	500.0	NA
Total Mercury	82.9	ND	100.0	Pass	1500.0	NA
Lead	207.3	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: NT

Analyst(s): NT

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)	NT	NT	NT	1.00E+02	NT
Total Yeast and Mold (YM)	NT	NT	NT	1.00E+03	NT
Total Viable Aerobic Bacteria (TAC)	NT	NT	NT	1.00E+04	NT
Enterobacteriaceae (EB)	NT	NT	NT	1.00E+02	NT

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

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	NT	NT	Detection in 1.0 g	NT
Salmonella spp.	NT	NT	Detection in 1.0 g	NT

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

[L] Mycotoxins Results | Metrc ID Tag: NT | Analysis Date: NT
Datafile: NT | Analyst(s): NT

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	NT	NT	-	NT
Aflatoxin B2	NT	NT	-	NT
Aflatoxin G1	NT	NT	-	NT
Aflatoxin G2	NT	NT	-	NT
Ochratoxin A	NT	NT	-	NT
Total Mycotoxins	-	NT	20.0	NT

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.

[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: 1A40A01000010CD000207077 | Analysis Date: 12/21/23
Datafile: RISP-07077_1A40A01000010CD000207077_487566_VEA_E_20231220_SD_02_12202023_005.lcd | Analyst(s): JP

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	-	Not Detected	-	Pass

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 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	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.

Steep Hill Massachusetts

METRC Sample ID: 1A40A01000010CD000207077

Item Name: Vape Oil (300mg CART, ZC)

QA/QC Section

[Q] Cannabinoid QC — Analysis Date: NT
Datafile: NT — Analyst(s): NT

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)	NT	NT	NT
Δ9-Tetrahydrocannabinol (Δ9-THC)	NT	NT	NT
Cannabidiolic acid (CBDA)	NT	NT	NT
Cannabidiol (CBD)	NT	NT	NT
Cannabinol (CBN)	NT	NT	NT
Cannabichromene (CBC)	NT	NT	NT
Cannabigerolic acid (CBGA)	NT	NT	NT
Cannabigerol (CBG)	NT	NT	NT
Cannabidivarin (CBDV)	NT	NT	NT
Tetrahydrocannabivarin (THCV)	NT	NT	NT
Δ8-Tetrahydrocannabinol (Δ8-THC)	NT	NT	NT

[R] Heavy Metals QC — Analysis Date: 12/23/23
Datafile: HM_A_20231222_JG_TH DIG-20231219_AP3 LCS — 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	3.5	4.0	88%
Cadmium	3.3	4.0	83%
Total Mercury	3.3	4.0	82%
Lead	3.6	4.0	89%

[S] Microbial Contaminants QC — Analysis Date: NT
Analyst(s): NT

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)	NT	NT	NT	NT
Total Yeast and Mold (YM)	NT	NT	NT	NT
Total Viable Aerobic Bacteria (TAC)	NT	NT	NT	NT
Enterobacteriaceae (EB)	NT	NT	NT	NT
Expected Value		*Detected*	*Not Detected*	

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

[T] Pathogenic Bacteria QC

Analysis Date: NT
Analyst(s): NT

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	NT	NT	NT	NT
Salmonella spp.	NT	NT	NT	NT
Expected Value		*Detected*	*Not Detected*	

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

[U] Mycotoxins QC

Datafile: NT
Analysis Date: 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
Aflatoxin B1	NT	NT	NT
Aflatoxin B2	NT	NT	NT
Aflatoxin G1	NT	NT	NT
Aflatoxin G2	NT	NT	NT
Ochratoxin A	NT	NT	NT

[V] Residual Solvent QC

Datafile: NT
Analysis Date: 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

Datafile: NT
Analysis Date: 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

Steep Hill Massachusetts

METRC Sample ID: 1A40A01000010CD000207077

Item Name: Vape Oil (300mg CART, ZC)

[X] Vitamin E Acetate QC — Analysis Date: 12/21/23

Datafile: CCV-20231220_SD_01_VEA_E_20231220_SD_02_1 — Analyst(s): JP

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

Analyte	Observed Result	Expected Result	Finding
Vitamin E Acetate	Detected	Detected	Pass

- End of Analytical Report -