green analytics
massachusetts, llc

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Analytical Report

GAMA Report ID: RISC-09772
Report Submitted: 7/6/2024

Client Info	
Rise Holdings, Inc	
28 Appleton Street Holyoke, MA 01040	
License:	RMD645-C
Metrc Manifest:	2327153
Date Received:	7/2/2024

Sample Identification	
METRC Batch ID:	H061124ZP-D-2
METRC Sample ID:	1A40A0100000B6E000009772
METRC Source ID:	1A40A0100000B6E000009764
ME Batch ID:	N/A
QBench Order ID:	RISC7756

Sample Properties	
Sample Weight (g):	7.22

Product Characterization	
Production Stage:	Raw Plant Material
Product Class:	Buds
Retail Name:	Flower (ZP)

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	-

Authorization

Green Analytics 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. The net/gross weight of the sample received was verified and all analyses were conducted at the GAMA laboratory. Quality control checks were prepared at known concentrations and run alongside batched client samples. Results presented here pertain to the sample received and relate only to items tested per sub-sampling SOP-071-GA. This Analytical Report shall not be reproduced except in full without GAMA approval. Where statements of conformity are reported ('pass' vs. 'fail'), the simple acceptance decision rule is applied, however the measurement uncertainty associated with the test method applied (not displayed in this simplified report) may impact the certainty with which a statement of conformity is made. This simplified report may not display all test methods' limits of detection (LODs), however this data is also available upon request.

James Roush
Laboratory Director

Cannabinoid Profile — **Metrc ID Tag: 1A40A0100000B6E000009772**
Test ID: #708511 — **Analysis Date: 07/03/2024**

Cannabinoids were analyzed using a High Performance Liquid Chromatograph equipped with a Photodiode Array Detector (HPLC-PDA) following GAMA SOP-002-GA; SOP-025-GA; SOP-073-GA.

Cannabinoid	LOQ (%)	Result (%)	Result (mg/g)
Tetrahydrocannabinolic acid (THCA)	0.040	18.509	185.09
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.040	0.342	3.42
Cannabidiolic acid (CBDA)	0.040	ND	ND
Cannabidiol (CBD)	0.040	ND	ND
Cannabinol (CBN)	0.040	ND	ND
Cannabichromene (CBC)	0.040	ND	ND
Cannabigerolic acid (CBGA)	0.040	0.452	4.52
Cannabigerol (CBG)	0.040	0.162	1.62
Cannabidivarin (CBDV)	0.040	ND	ND
Tetrahydrocannabivarin (THCV)	0.040	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.040	ND	ND
Total THC		**16.575**	**165.75**
Total CBD		**ND**	**ND**
Total Cannabinoids		**19.465**	**194.65**

Total THC: Δ9-THC + (THCA * 0.877)
Total CBD: CBD + (CBDA * 0.877)
Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

Heavy Metals Analysis — **Metrc ID Tag: 1A40A0100000B6E000009772**
Test ID: #708513 — **Analysis Date: 07/04/2024**

Heavy Metals were analyzed using an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) following GAMA SOP-021-GA; SOP-061-GA; SOP-072-GA. **- Limit units: ppb**

Analyte	LOQ (ppb)	Result (ppb)	Limit	Pass/Fail
Total Arsenic	132.9	ND	200	PASS
Cadmium	131.7	ND	200	PASS
Total Mercury	88.0	ND	100	PASS
Lead	175.8	BLQ	500	PASS

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

Microbial Contaminants Analysis — **Metrc Id Tag: 1A40A0100000B6E000009772**
Test IDs:708521, 708520, 708519, 708516

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 GAMA SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA. **- Limit units: CFU/g**

Analyte	Result (CFU/g)	Analysis Date	Limit (CFU/g)	Finding
Total Yeast and Mold (TYM)	153	07/06/2024	10000	PASS
Total Viable Aerobic Bacteria (TAC)	925	07/06/2024	100000	PASS
Total Coliforms (TC)	ND	07/06/2024	1000	PASS
Enterobacteriaceae (EB)	ND	07/06/2024	1000	PASS

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

Pathogenic Bacteria Results — **Metrc Id Tag: 1A40A0100000B6E000009772**
Test IDs:708517, 708518

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 GAMA SOP-701-GA; SOP-702-GA; SOP-703-GA; SOP-704-GA. - **Limit units: CFU/g**

Analyte	Result	Analysis Date	Limit	Finding
STEC E. Coli	Not Detected in 1g	07/06/2024	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	07/06/2024	Detection in 1.0 g	PASS

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

Mycotoxins Results — **Metrc ID Tag: 1A40A0100000B6E000009772**
Test ID: #708515 — **Analysis Date: 07/04/2024**

Mycotoxins were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-GA; SOP-062-GA; SOP-070-GA. - **Limit units: µg/kg**

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding
Aflatoxin B1	10.0	ND	20	PASS
Aflatoxin B2	10.0	ND	20	PASS
Aflatoxin G1	10.0	ND	20	PASS
Aflatoxin G2	10.0	ND	20	PASS
Ochratoxin A	10.0	ND	20	PASS

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

Pesticides Results — **Metrc ID Tag: 1A40A0100000B6E000009772**
Test ID: #708514 — **Analysis Date: 07/04/2024**

Pesticides were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-GA; SOP-062-GA; SOP-070-GA. - **Limit units: ppb**

Analyte	LOQ (ppb)	Result (ppb)	Limit (ppb)	Finding
Bifenazate	5.0	ND	10	PASS
Bifenthrin	5.0	ND	10	PASS
Cyfluthrin	5.0	ND	10	PASS
Etoxazole	5.0	ND	10	PASS
Imazalil	5.0	ND	10	PASS
Imidacloprid	5.0	ND	10	PASS
Myclobutanil	5.0	ND	10	PASS
Spiromesifen	5.0	ND	10	PASS
Trifloxystrobin	5.0	ND	10	PASS

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.

Terpenes Profile | **Metrc ID Tag: 1A40A0100000B6E000009772**
Test ID: #708512 | **Analysis Date: 07/03/2024**

Terpenes were analyzed using a Liquid Injection Autosampler coupled to a Gas Chromatograph equipped with a tandem Mass Spectrometer (GC/MS/MS) following GAMA SOP-002-MA; SOP-063-MA; SOP-069-MA.

Analyte	LOQ (%)	Result (%)	Result (mg/g)
α-Pinene	0.01	0.118	1.18
Camphene	0.01	0.026	0.26
Sabinene	0.01	ND	ND
β-Pinene	0.01	0.114	1.14
β-Myrcene	0.01	0.046	0.46
Phellandrene	0.01	ND	ND
Carene	0.01	ND	ND
α-Terpinene	0.01	ND	ND
D-Limonene	0.01	0.733	7.33
Eucalyptol	0.01	ND	ND
Ocimene	0.01	0.060	0.6
γ-Terpinene	0.01	ND	ND
Sabinene Hydrate	0.01	BLQ	BLQ
Terpinolene	0.01	0.013	0.13
Fenchone	0.01	BLQ	BLQ
Linalool	0.01	0.232	2.32
Fenchol	0.01	0.080	0.8
Camphor	0.01	ND	ND
Isoborneol	0.01	ND	ND
Borneol	0.02	BLQ	BLQ
Menthol	0.01	ND	ND
Terpineol	0.01	0.115	1.15
Nerol	0.01	ND	ND
Pulegone	0.01	ND	ND
Geraniol	0.01	0.047	0.47
Geranyl Acetate	0.01	ND	ND
α-Cedrene	0.01	ND	ND
Caryophyllene	0.01	0.555	5.55
α-Humulene	0.01	0.145	1.45
Valencene	0.01	ND	ND
cis-Nerolidol	0.01	ND	ND
trans-Nerolidol	0.01	0.071	0.71
Caryophyllene Oxide	0.01	0.024	0.24
Guaiol	0.01	ND	ND
Cedrol	0.01	ND	ND
α-Bisabolol	0.01	0.056	0.56
Total Terpenes		**2.435**	**24.35**

Note "NT": Not Tested; "ND": Not Detected; "LOQ": Limit of Quantitation; "BLQ": Below LOQ.