Analytical Report

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GAMA Report ID: SIR6-10934
Report Submitted: 5/5/2024

Client Info
Sira Naturals, Inc.
5-7 Industrial Road Milford, MA 01757
License: MC283066
Metrc Manifest: 2210297
Date Received: 5/1/2024

Sample Identification	
METRC Batch ID:	031824RS17M33-3
METRC Sample ID:	1A40A030000B799000010934
METRC Source ID:	1A40A030000B799000010924
ME Batch ID:	N/A
QBench Order ID:	SIR66928

Sample Properties	
Sample Weight (g):	10

Product Characterization	
Production Stage:	Raw Plant Material
Product Class:	Buds
Retail Name:	Red Sangria #17

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. 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.

ACCREDITED
CERT #s 4356.04 ; 4356.05

Kimberly Ross, PhD
Laboratory Director

Cannabinoid Profile
Test ID: #630393
Metrc ID Tag: 1A40A030000B799000010934
Analysis Date: 05/02/2024

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 (%)	%	mg/g
Tetrahydrocannabinolic acid (THCA)	0.097	19.552	195.52
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.121	0.559	5.59
Cannabidiolic acid (CBDA)	0.126	ND	ND
Cannabidiol (CBD)	0.120	ND	ND
Cannabinol (CBN)	0.110	ND	ND
Cannabichromene (CBC)	0.110	ND	ND
Cannabigerolic acid (CBGA)	0.114	0.326	3.26
Cannabigerol (CBG)	0.109	BLQ	BLQ
Cannabidivarin (CBDV)	0.110	ND	ND
Tetrahydrocannabivarin (THCV)	0.110	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.110	ND	ND
Total Cannabinoids		**20.437**	**204.37**

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

Heavy Metals Analysis
Test ID: #630395
Metrc ID Tag: 1A40A030000B799000010934
Analysis Date: 05/04/2024

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	151.4	ND	200	PASS
Cadmium	151.4	ND	200	PASS
Total Mercury	75.7	BLQ	100	PASS
Lead	151.4	BLQ	500	PASS

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

Microbial Contaminants Analysis
Test IDs:630403, 630402, 630401, 630398
Metrc Id Tag: 1A40A030000B799000010934

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)	ND	05/02/2024	10000	PASS
Total Viable Aerobic Bacteria (TAC)	488	05/02/2024	100000	PASS
Total Coliforms (TC)	ND	05/02/2024	1000	PASS
Enterobacteriaceae (EB)	ND	05/02/2024	1000	PASS

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

Pathogenic Bacteria Results
Test IDs:630399, 630400
Metrc Id Tag: 1A40A030000B799000010934

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	05/03/2024	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	05/03/2024	Detection in 1.0 g	PASS

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

Mycotoxins Results | Metrc ID Tag: 1A40A030000B799000010934
Test ID: #630397 | Analysis Date: 05/05/2024

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; "BLQ": Below limit of Quantification.

Pesticides Results | Metrc ID Tag: 1A40A030000B799000010934
Test ID: #630396 | Analysis Date: 05/05/2024

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; "BLQ": Below limit of Quantification.

Terpenes Profile
Test ID: #630394

Metrc ID Tag: 1A40A030000B799000010934
Analysis Date: 05/05/2024

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	0.047	0.47
Camphene	0.01	BLQ	BLQ
Sabinene	0.01	ND	ND
β-Pinene	0.01	0.045	0.45
β-Myrcene	0.01	0.023	0.23
Phellandrene	0.01	ND	ND
Carene	0.01	ND	ND
α-Terpinene	0.01	ND	ND
D-Limonene	0.01	0.229	2.29
Eucalyptol	0.01	ND	ND
Ocimene	0.01	0.025	0.25
γ-Terpinene	0.01	ND	ND
Sabinene Hydrate	0.01	ND	ND
Terpinolene	0.01	BLQ	BLQ
Fenchone	0.01	BLQ	BLQ
Linalool	0.01	0.118	1.18
Fenchol	0.01	0.051	0.51
Camphor	0.01	ND	ND
Isoborneol	0.01	ND	ND
Borneol	0.02	BLQ	BLQ
Menthol	0.01	ND	ND
Terpineol	0.01	0.083	0.83
Nerol	0.01	BLQ	BLQ
Pulegone	0.01	ND	ND
Geraniol	0.01	ND	ND
Geranyl Acetate	0.01	ND	ND
α-Cedrene	0.01	ND	ND
Caryophyllene	0.01	0.640	6.4
α-Humulene	0.01	0.189	1.89
Valencene	0.01	ND	ND
cis-Nerolidol	0.01	ND	ND
trans-Nerolidol	0.01	ND	ND
Caryophyllene Oxide	0.01	0.014	0.14
Guaiol	0.01	ND	ND
Cedrol	0.01	ND	ND
α-Bisabolol	0.01	0.102	1.02
Total Terpenes		**1.566**	**15.66**

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

- End of Analytical Report -