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GAMA Report ID: SIR6-10957  
Report Submitted: 5/5/2024

## Client Info

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

## Sample Identification

METRC Batch ID: 031824VLVPM33-5  
METRC Sample ID: 1A40A030000B799000010957  
METRC Source ID: 1A40A030000B799000010942  
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: Velvet Pie

## 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	Enterobacteriaceae	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.



*Kimberly Ross, PhD*

Kimberly Ross, PhD  
Laboratory Director

CERT #s 4356.04 ; 4356.05

Cannabinoid Profile  
Test ID: #630316

Metric ID Tag: 1A40A030000B799000010957  
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	22.260	222.60
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.121	0.908	9.08
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	0.665	6.65
Cannabigerol (CBG)	0.109	0.187	1.87
Cannabidivarin (CBDV)	0.110	ND	ND
Tetrahydrocannabivarin (THCV)	0.110	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.110	ND	ND
<b>Total Cannabinoids</b>		<b>24.020</b>	<b>240.20</b>

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

Heavy Metals Analysis  
Test ID: #630318

Metric ID Tag: 1A40A030000B799000010957  
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: 630326, 630325, 630324, 630321

Metric ID Tag: 1A40A030000B799000010957

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)	84	05/02/2024	10000	PASS
Total Viable Aerobic Bacteria (TAC)	ND	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: 630322, 630323

Metric ID Tag: 1A40A030000B799000010957

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  
Test ID: #630320

Metric ID Tag: 1A40A030000B799000010957  
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  
Test ID: #630319

Metric ID Tag: 1A40A030000B799000010957  
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
Etoazole	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: #630317

Metric ID Tag: 1A40A030000B799000010957  
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	0.075	0.75
Camphene	0.01	0.023	0.23
Sabinene	0.01	ND	ND
β-Pinene	0.01	0.091	0.91
β-Myrcene	0.01	0.069	0.69
Phellandrene	0.01	ND	ND
Carene	0.01	ND	ND
α-Terpinene	0.01	ND	ND
D-Limonene	0.01	0.619	6.19
Eucalyptol	0.01	ND	ND
Ocimene	0.01	0.014	0.14
γ-Terpinene	0.01	ND	ND
Sabinene Hydrate	0.01	ND	ND
Terpinolene	0.01	BLQ	BLQ
Fenchone	0.01	0.011	0.11
Linalool	0.01	0.308	3.08
Fenchol	0.01	0.096	0.96
Camphor	0.01	ND	ND
Isoborneol	0.01	ND	ND
Borneol	0.02	0.023	0.23
Menthol	0.01	ND	ND
Terpineol	0.01	0.168	1.68
Nerol	0.01	ND	ND
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	0.480	4.8
α-Humulene	0.01	0.133	1.33
Valencene	0.01	ND	ND
cis-Nerolidol	0.01	ND	ND
trans-Nerolidol	0.01	0.081	0.81
Caryophyllene Oxide	0.01	BLQ	BLQ
Guaiol	0.01	ND	ND
Cedrol	0.01	ND	ND
α-Bisabolol	0.01	0.073	0.73
<b>Total Terpenes</b>		<b>2.264</b>	<b>22.64</b>

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

**- End of Analytical Report -**