green analytics
massachusetts, llc

40 Speen St., Suite #301
Framingham, MA 01701
508-465-3470
lab-ma@greenanalyticslabs.com

Analytical Report

GAMA Report ID: ARLC-99492
Report Submitted: 1/24/2025

Client Info
ARL Healthcare
177 John Vertente Boulevard New Bedford, MA 02745
License: RMD1085-C
Metrc Manifest: 2706086
Date Received: 1/21/2025

Sample Identification	
METRC Batch ID:	See Overflow Field Below
METRC Sample ID:	1A40A0100001AF5000099492
METRC Source ID:	1A40A0100001AF5000099469
ME Batch ID:	N/A
QBench Order ID:	ARLC10511

Sample Identification Overflow	
METRC Batch ID:	Lilac Diesel H1.6.25 F13 B3 T1

Sample Properties	
Sample Weight (g):	10

Product Characterization	
Production Stage:	Raw Plant Material
Product Class:	Buds
Retail Name:	Lilac Diesel Bulk Flower

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-MA. 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: 1A40A0100001AF5000099492
Test ID: #964242
Analysis Date: 01/22/2025

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

Cannabinoid	LOQ (%)	Result (%)	Result (mg/g)
Tetrahydrocannabinolic acid (THCA)	0.040	27.963	279.63
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.040	0.526	5.26
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	3.391	33.91
Cannabigerol (CBG)	0.040	0.547	5.47
Cannabidivarin (CBDV)	0.040	ND	ND
Tetrahydrocannabivarin (THCV)	0.040	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.040	ND	ND
Total THC		**25.049**	**250.49**
Total CBD		**ND**	**ND**
Total Cannabinoids		**32.427**	**324.27**

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: 1A40A0100001AF5000099492
Test ID: #964244
Analysis Date: 01/22/2025

Heavy Metals were analyzed using an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) following GAMA SOP-021-MA; SOP-061-MA; SOP-072-MA. **- 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	BLQ	100	PASS
Lead	175.8	ND	500	PASS

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

PCR Microbial Contaminants Analysis

Metrc Id Tag: 1A40A0100001AF5000099492
Test IDs:964247, 964250, 964251, 964252

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-MA; SOP-702-MA; SOP-703-MA; SOP-704-MA. **- Limit units: CFU/g**

Analyte	Result	Analysis Date	Limit	Finding
Total Yeast and Mold (TYM)	ND	01/23/2025	10000	PASS
Total Viable Aerobic Bacteria (TAC)	111	01/23/2025	100000	PASS
Total Coliforms (TC)	ND	01/23/2025	1000	PASS
Enterobacteriaceae (EB)	ND	01/23/2025	1000	PASS

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

Pathogenic Bacteria Results — **Metrc Id Tag: 1A40A0100001AF5000099492**
Test IDs:964248, 964249

The presence or absence of STEC E. coli and Salmonella spp. was determined using a PCR technique. Samples were incubated for a minimum of 18 hours prior to plating and analyzed following GAMA SOP-700-MA. **- Limit units: CFU/g**

Analyte	Result	Analysis Date	Limit	Finding
STEC E. Coli	Not Detected in 1g	01/23/2025	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	01/23/2025	Detection in 1.0 g	PASS

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

Mycotoxins Results — **Metrc ID Tag: 1A40A0100001AF5000099492**
Test ID: #964246 — **Analysis Date: 01/23/2025**

Mycotoxins were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-MA; SOP-062-MA; SOP-070-MA. **- 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: 1A40A0100001AF5000099492**
Test ID: #964245 — **Analysis Date: 01/23/2025**

Pesticides were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-MA; SOP-062-MA; SOP-070-MA. **- 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: 1A40A0100001AF5000099492**
Test ID: #964243 | **Analysis Date: 01/23/2025**

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	0.113	1.13
β-Pinene	0.01	0.145	1.45
β-Myrcene	0.01	0.592	5.92
Limonene	0.01	0.191	1.91
Terpinolene	0.01	1.496	14.96
Linalool	0.01	0.059	0.59
Caryophyllene	0.01	0.666	6.66
α-Humulene	0.01	0.197	1.97
Caryophyllene Oxide	0.01	0.018	0.18
α-Bisabolol	0.01	0.092	0.92
Total Terpenes		**3.569**	**35.69**

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

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Analytical Report

GAMA Report ID: ARLC-99384
Report Submitted: 1/24/2025

Client Info
ARL Healthcare
177 John Vertente Boulevard New Bedford, MA 02745
License: RMD1085-C
Metrc Manifest: 2706086
Date Received: 1/21/2025

Sample Identification	
METRC Batch ID:	See Overflow Field Below
METRC Sample ID:	1A40A0100001AF5000099384
METRC Source ID:	1A40A0100001AF5000099354
ME Batch ID:	N/A
QBench Order ID:	ARLC10511

Sample Identification Overflow	
METRC Batch ID:	Larry Bird Mints H12.10.24 F7 B2 T2

Sample Properties	
Sample Weight (g):	10

Product Characterization	
Production Stage:	Raw Plant Material
Product Class:	Buds
Retail Name:	Larry Bird Mints Bulk Flower

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	-

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James Roush
Laboratory Director

Cannabinoid Profile

Test ID: #964187 | **Metrc ID Tag: 1A40A0100001AF5000099384** | **Analysis Date: 01/22/2025**

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

Cannabinoid	LOQ (%)	Result (%)	Result (mg/g)
Tetrahydrocannabinolic acid (THCA)	0.040	24.574	245.74
Δ9-Tetrahydrocannabinol (Δ9-THC)	0.040	0.519	5.19
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	1.268	12.68
Cannabigerol (CBG)	0.040	0.359	3.59
Cannabidivarin (CBDV)	0.040	ND	ND
Tetrahydrocannabivarin (THCV)	0.040	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.040	ND	ND
Total THC		**22.070**	**220.70**
Total CBD		**ND**	**ND**
Total Cannabinoids		**26.720**	**267.20**

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

Test ID: #964189 | **Metrc ID Tag: 1A40A0100001AF5000099384** | **Analysis Date: 01/22/2025**

Heavy Metals were analyzed using an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) following GAMA SOP-021-MA; SOP-061-MA; SOP-072-MA. **- 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	BLQ	100	PASS
Lead	175.8	ND	500	PASS

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

PCR Microbial Contaminants Analysis

Test IDs:964192, 964195, 964196, 964197 | **Metrc Id Tag: 1A40A0100001AF5000099384**

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-MA; SOP-702-MA; SOP-703-MA; SOP-704-MA. **- Limit units: CFU/g**

Analyte	Result	Analysis Date	Limit	Finding
Total Yeast and Mold (TYM)	ND	01/23/2025	10000	PASS
Total Viable Aerobic Bacteria (TAC)	267	01/23/2025	100000	PASS
Total Coliforms (TC)	ND	01/23/2025	1000	PASS
Enterobacteriaceae (EB)	ND	01/23/2025	1000	PASS

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

Pathogenic Bacteria Results — **Metrc Id Tag: 1A40A0100001AF5000099384**
Test IDs:964193, 964194

The presence or absence of STEC E. coli and Salmonella spp. was determined using a PCR technique. Samples were incubated for a minimum of 18 hours prior to plating and analyzed following GAMA SOP-700-MA. **- Limit units: CFU/g**

Analyte	Result	Analysis Date	Limit	Finding
STEC E. Coli	Not Detected in 1g	01/23/2025	Detection in 1.0 g	PASS
Salmonella spp.	Not Detected in 1g	01/23/2025	Detection in 1.0 g	PASS

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

Mycotoxins Results — **Metrc ID Tag: 1A40A0100001AF5000099384**
Test ID: #964191 — **Analysis Date: 01/23/2025**

Mycotoxins were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-MA; SOP-062-MA; SOP-070-MA. **- 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: 1A40A0100001AF5000099384**
Test ID: #964190 — **Analysis Date: 01/23/2025**

Pesticides were analyzed using a High Performance Liquid Chromatograph equipped with a tandem Mass Spectrometer (LC/MS/MS) following GAMA SOP-002-MA; SOP-062-MA; SOP-070-MA. **- 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: 1A40A0100001AF5000099384**
Test ID: #964188 | **Analysis Date: 01/23/2025**

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	0.131	1.31
β-Pinene	0.01	0.095	0.95
β-Myrcene	0.01	0.159	1.59
Limonene	0.01	0.751	7.51
Terpinolene	0.01	0.011	0.11
Linalool	0.01	0.188	1.88
Caryophyllene	0.01	1.202	12.02
α-Humulene	0.01	0.331	3.31
Caryophyllene Oxide	0.01	0.018	0.18
α-Bisabolol	0.01	0.013	0.13
Total Terpenes		**2.899**	**28.99**

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