

CERTIFICATE OF ANALYSIS

Client
253 Organic, LLC
Lic #MC281258
253 Millers Falls Rd
Montague, MA 01376

Sample Information

Sample ID	24021401-02	Sample Name	Emergen-C Buds
Batch Number	Emergen-C-011524-7A-D	METRC Tag	1A40A0300001195000016662
Description	Buds	METRC Source	1A40A0300001195000016661
Date Received	02/14/2024	Testing Date(s)	02/14/2024 - 02/15/2024
COA Expiration	02/15/2025		



Summary

Test	Date Tested	Result
Cannabinoids	02/14/2024	32.734 %
Microbials	02/15/2024	Pass
Pathogenic Bacteria	02/15/2024	Pass
Heavy Metals	02/14/2024	Pass
Mycotoxins	02/15/2024	Pass
Pesticides	02/15/2024	Pass
Terpenes	02/14/2024	1.826 %
Moisture Content	02/14/2024	4.82 %

27.310 %

Total THC

ND %

Total CBD

32.734 %

Total Cannabinoids

Cate Ligenza
Lab Director, SafeTiva Labs



The results in this report relate only to the tested items and apply to the sample as received. All laboratory activities performed at SafeTiva Labs in Westfield, MA. Measurement uncertainty is not factored in to decision rules.

TEST RESULTS

CANNABINOID PROFILE

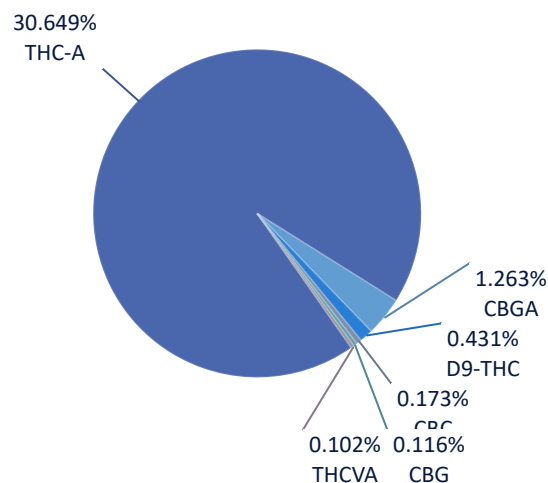
TM-1 Quantitation of Cannabinoids

Date(s) of Testing: 02/14/2024 - 02/14/2024

Analysts: CR

The sample was analyzed using Liquid Chromatography.

Analyte	Reporting Limit	Result	Result
	%	%	mg/g
Total Cannabinoids ¹	N/A	32.734	327.34
Total THC ²	0.010	27.310	273.10
Total CBD ³	0.010	ND	ND
THC-A	0.010	30.649	306.49
CBGA	0.010	1.263	12.63
D9-THC	0.010	0.431	4.31
CBC	0.010	0.173	1.73
CBG	0.010	0.116	1.16
THCVA	0.010	0.102	1.02
CBDVA	0.010	ND	ND
CBDV	0.010	ND	ND
CBDA	0.010	ND	ND
CBD	0.010	ND	ND
THCV	0.010	ND	ND
CBN	0.010	ND	ND
CBNA	0.010	ND	ND
D8-THC	0.010	ND	ND
CBL	0.010	ND	ND
CBCA	0.010	ND	ND



1 Total Cannabinoids is the sum of total active cannabinoids (TAC) listed above.

2 Total THC is determined using: $d9THC + (THCA \times 0.877) = \text{Total THC}$.

3 Total CBD is determined using: $CBD + (CBDA \times 0.877) = \text{Total CBD}$.

*Flower matrices have been adjusted for moisture content.

TEST RESULTS

MICROBIAL SCREEN

TM-8 Microbial Contaminants

Date(s) of Testing: 02/15/2024 - 02/15/2024

Analysts: LS

The sample was analyzed using PCR/microarray analysis and petrifilm plating.

Organism	Result	Units	Limits	Pass/Fail
Total Aerobic Bacteria	56,000	CFU/g	100,000	Pass
Total Yeast and Mold	850	CFU/g	10,000	Pass
Total Coliforms	120	CFU/g	1,000	Pass
Bile-Tolerant Gram Neg Bacteria	120	CFU/g	1,000	Pass

Organism	Result	Limits	Pass/Fail
Pathogenic E coli	Not Detected	Not detected in 0.5 g	Pass
Salmonella spp	Not Detected	Not detected in 0.5 g	Pass

Disposition of results is based on action limits set forth in Protocol for the Sampling and Analysis of Finished Marijuana Products and Marijuana Products for Marijuana Establishments, Medical Marijuana Treatment Centers, and Colocated Marijuana Operations, Exhibit 6. Analysis Requirements for Microbiological Contaminants and Mycotoxins in Medical Marijuana Products.



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Westfield, MA 01085
(413) 232-9570
License #ILN281354

Report Number: 24021401-02

Report Date: Feb 15, 2024

TEST RESULTS

HEAVY METALS

TM-2 Quantitation of Metals

Date(s) of Testing: 02/14/2024 - 02/14/2024

Analysts: SG

The sample was analyzed using ICP/MS.

Analyte	Reporting Limit	Result	Limits	Pass/Fail
	ppb	ppb	ppb	
Arsenic	150.0	ND	200	Pass
Cadmium	150.0	ND	200	Pass
Mercury	50.00	ND	100	Pass
Lead	200.0	ND	500	Pass

Disposition of results is based on action limits set forth in Protocol for the Sampling and Analysis of Finished Marijuana Products and Marijuana Products for Marijuana Establishments, Medical Marijuana Treatment Centers, and Colocated Marijuana Operations, Exhibit 4. Analysis Requirements and Recommended Limits for Metals in Finished Medical Marijuana Products.

TEST RESULTS

MYCOTOXINS

TM-4 Quantitation of Pesticides and Mycotoxins

Date(s) of Testing: 02/15/2024 - 02/15/2024

Analysts: SG

The sample was analyzed using Liquid Chromatography.

Analyte	Reporting Limit	Result	Limits	Pass/Fail
	ppb	ppb	ppb	
Aflatoxin B1	2.77	ND	20	Pass
Aflatoxin B2	2.33	ND	20	Pass
Aflatoxin G1	1.60	ND	20	Pass
Aflatoxin G2	1.23	ND	20	Pass
Ochratoxin A	12.60	ND	20	Pass

Disposition of results is based on action limits set forth in Protocol for the Sampling and Analysis of Finished Marijuana Products and Marijuana Products for Marijuana Establishments, Medical Marijuana Treatment Centers, and Colocated Marijuana Operations, Exhibit 5 (Pesticides) and Exhibit 6 (Microbial).

PESTICIDES

TM-4 Quantitation of Pesticides and Mycotoxins

Date(s) of Testing: 02/15/2024 - 02/15/2024

Analysts: SG

The sample was analyzed using Liquid Chromatography.

Analyte	Reporting Limit	Result	Limits	Pass/Fail
	ppb	ppb	ppb	
Bifenazate	2.08	ND	10	Pass
Bifenthrin	1.14	ND	10	Pass
Cyfluthrin	3.36	ND	10	Pass
Etoxazole	0.40	ND	10	Pass
Imazalil	0.71	ND	10	Pass
Imidacloprid	1.12	ND	10	Pass
Myclobutanil	0.34	ND	10	Pass
Spiromesifen	0.52	ND	10	Pass
Trifloxystrobin	0.17	ND	10	Pass

Disposition of results is based on action limits set forth in Protocol for the Sampling and Analysis of Finished Marijuana Products and Marijuana Products for Marijuana Establishments, Medical Marijuana Treatment Centers, and Colocated Marijuana Operations, Exhibit 5 (Pesticides) and Exhibit 6 (Microbial).

TEST RESULTS

TERPENES

TM-5 Quantitation of Terpenes

Date(s) of Testing: 02/14/2024 - 02/14/2024

Analysts: CR

The sample was analyzed using Gas Chromatography.*

Analyte	Reporting Limit	Result
	%	%
Total Terpenes ²	0.010	1.826
b-Myrcene	0.010	0.500
b-Caryophyllene	0.010	0.411
d-Limonene	0.010	0.262
Linalool	0.010	0.191
a-Bisabolol	0.010	0.110
a-Humulene	0.010	0.107
Guaiol	0.010	0.079
b-Pinene	0.010	0.058
Cis-Nerolidol	0.010	0.054
a-Pinene	0.010	0.036
Trans-Nerolidol	0.010	0.018
Geraniol	0.010	ND
Terpinolene	0.010	ND
γ-Terpinene	0.010	ND
Eucalyptol	0.010	ND
b-Ocimene	0.010	ND
cis-Ocimene	0.010	ND
Caryophyllene Oxide	0.010	ND
Camphene	0.010	ND
p-Cymene	0.010	ND
a-Terpinene	0.010	ND
Isopulegol	0.010	ND
3-Carene	0.010	ND

1 Total Terpenes is the sum of terpenes listed above.

*Not an accredited method.



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TEST RESULTS

MOISTURE ACTIVITY

TM-7 Moisture

Date(s) of Testing: 02/14/2024 - 02/14/2024

Analysts: AC

This sample was analyzed using a Moisture Analyzer

Analyte	Result	Units
Moisture Content	4.82	%