

Office: 802-540-0148 | Fax: 802-540-0147 480 HERCULES DR. COLCHESTER, VT 05446

# **Certificate of Analysis**

Company: Grass Roots Vermont

Sample ID: Mac & Cheese - EAB - GRVT 202926

84 Lovers LN

Lot: N/A Report Date: 5/10/2023

n 1 7 1 m hanna

Date Analyzed: 5/9/2023

Brandon, VT 05733

Date Analyzeu: 3/3/20

Customer ID: 230207-0

Date Sampled: N/A

Analyst: 011

Grower License #: RD3083365

Date Received: 5/2/2023

Matrix: Flower

Report ID: C230502AI

#### **Cannabinoid Summary**

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<loq< td=""><td><l0q< td=""></l0q<></td></loq<>	<l0q< td=""></l0q<>
CBDV	0.0012	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBDA	0.0008	0.82	0.08
CBGA	0.0008	5.36	0.54
CBG	0.0019	0.67	0.07
CBD	0.0019	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
THCV	0.0021	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBN	0.0013	1.54	0.15
Δ9-ТНС	0.0020	26.52	2.65
Δ8-ТНС	0.0019	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
THC-A	0.0034	177.79	17.78
СВС	0.0024	1.01	0.10
Total THC		182.44	18.24
Total CBD		0.72	0.07
Total Cannabinoids		213.69	21.37

18.24% 0.07%

Total THC Total CBD

21.37% Total Cannabinoids

2.65% Δ9-THC

9.13% Percent

Moisture

1:0

THC : CBD Ratio

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

Total THC = (THCA x 0.877) +  $\Delta 9$ -THC Ratio of Total CBD: Total THC Total CBD = (CBDA x 0.877) + CBD Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.  $\Delta 9\text{-THC MU} = \pm 0.005\%$  Total THC MU =  $\pm 0.007\%$ 

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

This report shall not be reproduced except in full without approval of the laboratory. This is o provide assurance that parts of a report are not taken out of context. Results apply to the Certified by: samples as received.



Luke E.M

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

(802) 540-0148 laboratory@biadiagnostics.com

Certificate Registration Number: CL\_50\_2021\_002



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84 Lovers LN

Lot: N/A

Report Date: 5/10/2023

Brandon, VT 05733

Matrix: Flower

Date Analyzed: 5/8/2023

Customer ID: 230207-0

Date Sampled: N/A

Analyst: 045

Grower License #: RD3083365

Date Received: 5/2/2023

Report ID: C230502AI

### Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)	
Abamectin	0.0100	<loq< td=""></loq<>	
Acephate	0.0010	<loq< td=""></loq<>	
Acequinocyl	0.0010	<loq< td=""></loq<>	
Azoxystrobin	0.0010	<loq< td=""></loq<>	
Bifenazate	0.0010	<loq< td=""></loq<>	
Bifenthrin	0.0010	<loq< td=""></loq<>	
Carbaryl	0.0010	<loq< td=""></loq<>	
Cypermethrin	0.0100	<loq< td=""></loq<>	
Etoxazole	0.0010	<loq< td=""></loq<>	
Imidacloprid	0.0010	<loq< td=""></loq<>	
Myclobutanil	0.0010	<loq< td=""></loq<>	
Pyrethrin I	0.0010	<loq< td=""></loq<>	
Pyrethrin II	0.0010	<loq< td=""></loq<>	
Spinosyn A	0.0010	<loq< td=""></loq<>	
Spinosyn D	0.0010	<loq< td=""></loq<>	

Category II Mycotoxin	LOQ (ppm)	Concentration (ppm)
Ochratoxin A	0.0020	NOT TESTED
Aflatoxin B1	0.0002	NOT TESTED
Alfatoxin B2	0.0010	NOT TESTED
Alfatoxin G1	0.0002	NOT TESTED
Alfatoxin G2	0.0010	NOT TESTED

- Category I Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Chlorpyrifos	0.0010	<loq< th=""></loq<>
lmazalil	0.0010	<loq< td=""></loq<>



9.13%

**Percent Moisture** 

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

Certified by: Luke E.M.

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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84 Lovers LN

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Customer ID: 230207-0

Grower License #: RD3083365

Sample ID: Mac & Cheese - EAB - GRVT 202926

Lot: N/A

Matrix: Flower

Date Sampled: N/A

Date Received: 5/2/2023

Report Date: 5/11/2023

**Date Analyzed: 5/11/2023** Analyst: 018

Report ID: C230502AI

#### **Pathogen Summary**

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	<lod< td=""></lod<>
STEC	STEC Virx AOAC PTM No. 121203	5	<lod< td=""></lod<>
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5 *	<lod< td=""></lod<>



Test Methodology: Bio-Rad IQ-Check PCR Kits

cfu/g = colony forming units per gram

LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (<LOD).

Reagent Blanks: <LOD for all analytes

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