

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

# Certificate of Analysis

Company: Grass Roots Vermont

84 Lovers LN

Brandon, VT 05733

Customer ID: 230207-0 Grower License #: RD3083365 Sample ID: MAC

Lot: GRVT 204656 (FAR)

Matrix: Flower

Date Sampled: N/A

Date Received: 7/10/2023

Report Date: 7/21/2023

Date Analyzed: 7/20/2023 Analyst: 049

Report ID: C230710AY

### 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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Certified by:

v: Luke K: M

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)



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## **Certificate of Analysis**

Company: Grass Roots Vermont

Sample ID: MAC

84 Lovers LN

Lot: GRVT 204656 (FAR)

Report Date: 7/19/2023

Brandon, VT 05733

Matrix: Flower

Date Analyzed: 7/17/2023

Customer ID: 230207-0

Date Sampled: N/A

Analyst: 045

Grower License #: RD3083365

Date Received: 7/10/2023

Report ID: C230710AY

#### Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)	
Abamectin	0.0100		
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< td=""></loq<>	
Imazalil	0.0010	<loq< td=""></loq<>	



12.09%

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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Results apply to the samples as received.

(802) 540-0148 laboratory@biadiagnostics.com



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# **Certificate of Analysis**

Company: Grass Roots Vermont

Sample ID: MAC

84 Lovers LN

Lot: GRVT 204656 (FAR)

Report Date: 7/19/2023

Brandon, VT 05733

Matrix: Flower

Date Analyzed: 7/14/2023

Customer ID: 230207-0

Date Sampled: N/A

Analyst: 011

Grower License #: RD3083365

Date Received: 7/10/2023

Report ID: C230710AY

0.14%

**Total CBD** 

### Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBDV	0.0012	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBDA	0.0008	1.59	0.16
CBGA	0.0008	7.54	0.75
CBG	0.0019	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
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	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
∆9-ТНС	0.0020	7.79	0.78
Δ8-ТНС	0.0019	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
THC-A	0.0034	278.41	27.84
СВС	0.0024	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Total THC		251.95	25.20
Total CBD		1.40	0.14
Total Cannabinoids		295.33	29.53

29.53%

25.2%

**Total THC** 

0.78%

Total Cannabinoids

Δ9-ТНС

12.09%

Percent Moisture 1:0

THC : CBD Ratio

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

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.  $\Delta 9$ -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.

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