



**Certificate of Analysis**

Company: Grass Roots Vermont

Sample ID: Chocolate FAF

84 Lovers LN

Lot: GRVT204403

Brandon, VT 05733

Matrix: Flower

Grower License #: RD3083365

Date Received: 3/29/2023

Customer ID: 230207-0

Date Sampled: N/A

Report Date: 4/7/2023

Analyst: 011

Report ID: C230329AK

**Cannabinoil Summary**

Cannabinoil Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDa	0.0008	0.85	0.09
CBDgA	0.0008	8.42	0.84
CBG	0.0019	0.95	0.10
CBD	0.0019	<LOQ	<LOQ
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
A9-THC	0.0020	4.33	0.43
A8-THC	0.0019	<LOQ	<LOQ
THCA	0.0034	294.68	29.47
CBC	0.0024	<LOQ	<LOQ
<b>Total THC</b>	<b>262.77</b>	<b>26.28</b>	<b>0.07</b>
<b>Total CBD</b>	<b>0.75</b>	<b>309.24</b>	<b>30.92</b>

Cannabinoil 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) + A9-THC

Total CBD = (CBDA x 0.877) + CBD

Ratio of Total CBD: Total THC

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.

A9-THC MU = ±0.005%

Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

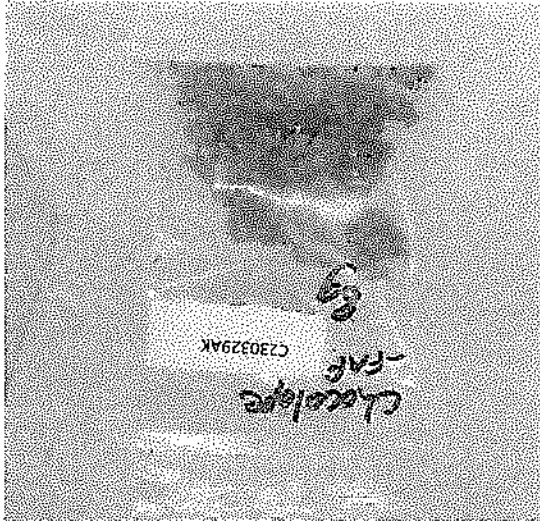
All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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

*Julie E. M.*

Certified by: Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

(802) 540-0148 laboratory@biadiagnostics.com Certificate Registration Number: CL\_50\_2021\_002



Moisture Percent	9.47%	THC : CBD Ratio	1 : 0
Total Cannabinoils	30.92%	A9-THC	0.43%
Total THC	26.28%	Total CBD	0.07%

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**Grower License #:** RD3083365

**Sample ID:** Chocolope FAF  
Lot: GRVT204403  
Matrix: Flower  
**Date Sampled:** N/A  
**Date Received:** 3/29/2023

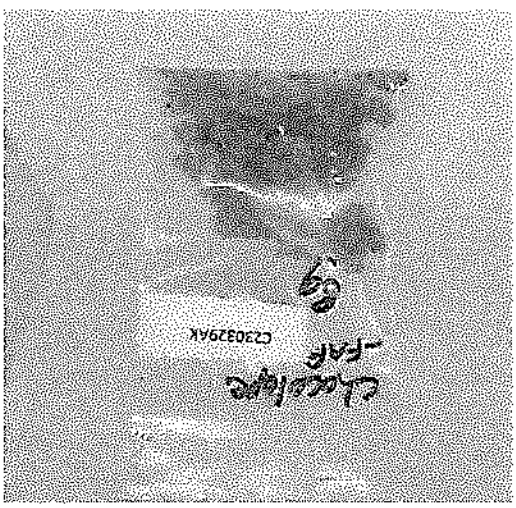
**Report Date:** 4/10/2023  
**Date Analyzed:** 4/6/2023  
**Analyst:** 045  
**Report ID:** C230329AK

**Pesticides/Mycotoxins Summary**

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Abamectin	0.0100	<LOQ
Acaphate	0.0010	<LOQ
Acetamiprid	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Pyrethrin I	0.0010	<LOQ
Pyrethrin II	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Category II Mycotoxin	LOQ (ppm)	Concentration (ppm)
Ochratoxin A	0.0020	NOT TESTED
Aflatoxin B1	0.0002	NOT TESTED
Aflatoxin B2	0.0010	NOT TESTED
Aflatoxin G1	0.0002	NOT TESTED
Aflatoxin G2	0.0010	NOT TESTED
Category I Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ

**Percent Moisture**  
9.47%



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 Q5ight™ LX50 UHPLC and Q5ight 220 Mass Spectrometer.  
All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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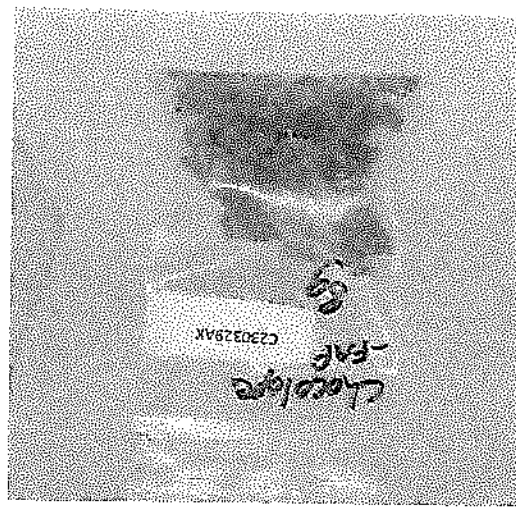
Certified by: Julie E. M.  
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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**Report Date:** 4/6/2023  
**Date Analyzed:** 4/5/2023  
**Analyst:** O18  
**Report ID:** C230329AK

**Pathogen Summary**

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	<LOD
STEC	STEC Vix AOAC PTM No. 121203	5	<LOD
Salmonella II AOAC PTM No. 010803	Salmonella spp.	5	<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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