

Certificate of Analysis

Company: Grass Roots Vermont 84 Lovers LN Brandon, VT 05733	Sample ID: StarCab EAS Lot: N/A Matrix: Flower	Report Date: 4/6/2023 Date Analyzed: 4/5/2023 Analyst: 018 Report ID: C230329AN
Customer ID: 230207-0 Grower License #: RD3083365	Date Sampled: N/A Date Received: 3/29/2023	

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 Virx AOAC PTM No. 121203	5	<LOD
Salmonella spp.	Salmonella II AOAC PTM No. 010803	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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Certified by: Luke E. M.
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Grass Roots Vermont 84 Lovers LN Brandon, VT 05733	Sample ID: StarCab EAS Lot: N/A Matrix: Flower	Report Date: 4/10/2023 Date Analyzed: 4/6/2023 Analyst: 045
Customer ID: 230207-0	Date Sampled: N/A	Report ID: C230329AN
Grower License #: RD3083365	Date Received: 3/29/2023	

Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	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
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
Imazalil	0.0010	<LOQ

10.15%
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 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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Certificate of Analysis

Company: Grass Roots Vermont	Sample ID: Starcab	Report Date: 7/19/2023
84 Lovers LN	Lot: GRVT204026 (EAS)	Date Analyzed: 7/14/2023
Brandon, VT 05733	Matrix: Flower	Analyst: 011
Customer ID: 230207-0	Date Sampled: N/A	Report ID: C230710AU
Grower License #: RD3083365	Date Received: 7/10/2023	

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	1.06	0.11
CBGA	0.0008	4.90	0.49
CBG	0.0019	1.22	0.12
CBD	0.0019	<LOQ	<LOQ
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
Δ9-THC	0.0020	20.68	2.07
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	265.74	26.57
CBC	0.0024	1.18	0.12
Total THC		253.73	25.37
Total CBD		0.93	0.09
Total Cannabinoids		294.78	29.48

25.37%

Total THC

0.09%

Total CBD

29.48%

Total Cannabinoids

2.07%

Δ9-THC

11.59%

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 × 0.877) + Δ9-THC Total CBD = (CBDA × 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.
 Δ9-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.



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