Bia Diagnostics Laboratories

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

Certificate of Analysis

Company: Green Mountain Gardens
Sample ID: Cherry Smash
Lot: 02
Matrix: Flower
Date Sampled: N/A
Date Received: 11/10/2023
Customer ID: 221010-1
Grower License #: SCLT0110

Report Date: 12/1/2023
Date Analyzed: 11/30/2023
Analyst: 011
Report ID: C231110BC

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	0.47	0.05
CBGA	0.0008	9.51	0.95
CBG	0.0019	0.93	0.09
CBD	0.0019	<LOQ	<LOQ
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
Δ9-THC	0.0020	5.32	0.53
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	165.80	16.58
CBC	0.0024	<LOQ	<LOQ
Total THC		150.72	15.07
Total CBD		0.41	0.04
Total Cannabinoids		182.03	18.20

15.07% **Total THC**	0.04% **Total CBD**
18.2% **Total Cannabinoids**	0.53% **Δ9-THC**
11.75% **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) + Δ9-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.
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.

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.

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

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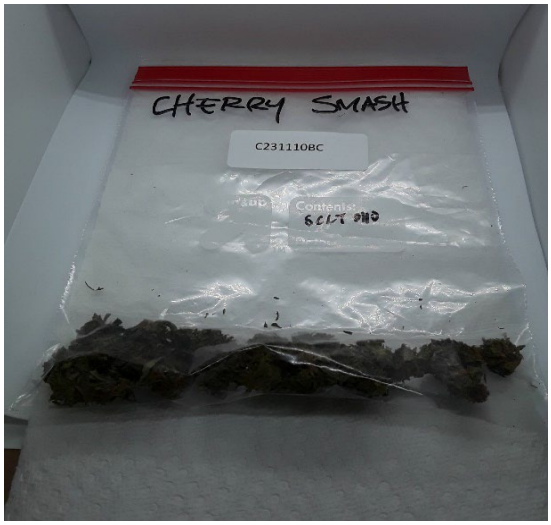
Report Date: 12/1/2023
Date Analyzed: 11/29/2023
Analyst: 053
Report ID: C231110BC

Water Activity Summary

Test	Method	Result
Water Activity	ASTM D8196: Determination of Water Activity in Cannabis Flower	0.5047



Test Methodology: Aqualab TDL 2 water activity meter with tunable diode laser

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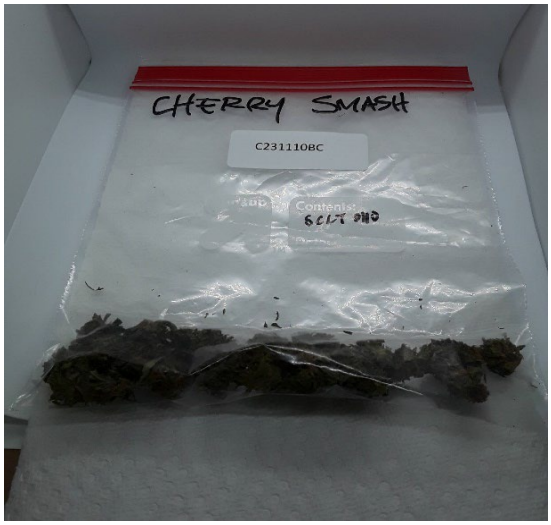
Report Date: 12/5/2023
Date Analyzed: 12/5/2023
Analyst: 018
Report ID: C231110BC

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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