

Customer ID: 221010-1

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

Certificate of Analysis

Company: Green Mountain Gardens Sample ID: Dark Queen

Lot: 2023-03 **Report Date:** 11/2/2023

Matrix: Flower Date Analyzed: 10/31/2023

Date Sampled: N/A Analyst: 011

Grower License #: SCLT0110 Date Received: 10/20/2023 Report ID: C231020A0

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
		(0.0)	
CBDVA	0.0005	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDV	0.0012	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDA	0.0008	0.70	0.07
CBGA	0.0008	21.39	2.14
CBG	0.0019	0.55	0.06
CBD	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
THCV	0.0021	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBN	0.0013	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Δ9-ΤΗС	0.0020	3.16	0.32
Δ8-ΤΗС	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
THC-A	0.0034	207.19	20.72
CBC	0.0024	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Total THC		184.87	18.49
Total CBD		0.61	0.06
Total Cannabinoids		233.00	23.30

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 Total CBD = (CBDA x 0.877) + CBD

Ratio of Total CBD: Total THC

Total CBD = (CBDA x 0.877) + CBD Reagent Blanks: < LOQs for all analytes

 ${\rm LOQ}$ = 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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18.49% Total THC

0.06%
Total CBD

23.3%

Total

Cannabinoids

0.32%

Δ9-THC

12.78%

Percent Moisture 1:0

THC : CBD Ratio



Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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Certificate of Analysis

Sample ID: Dark Queen **Company:** Green Mountain Gardens

> Lot: 2023-03 **Report Date:** 11/2/2023 **Date Analyzed:** 10/26/2023

Matrix: Flower

Analyst: 011

Customer ID: 221010-1 Grower License #: SCLT0110 Date Sampled: N/A **Date Received:** 10/20/2023

Report ID: C231020AO

Water Activity Summary

Test	Method	Result
Water Activity	ASTM D8196: Determination of Water Activity in Cannabis Flower	0.5776



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

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Certified by:

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)