Bia Diagnostics Laboratories

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# Certificate of Analysis

**Company:** Vermont Herbal Essentials
383 Patch Rd.
Morrisville, VT 05661
**Customer ID:** 220425-0
**Grower License #:** 50_2022_00000527

**Sample ID:** Lot: MANU0026-0002-0014
**Lot:** MANU0026-0002-0014
**Matrix:** Other
**Date Sampled:** 3/5/2023
**Date Received:** 3/6/2023

**Report Date:** 3/10/2023
**Date Analyzed:** 3/9/2023
**Analyst:** 050
**Report ID:** C230306AU

## Cannabinoid Summary

| Cannabinoid Profile | LOQ (mg/g) | Concentration (mg/g) | Weight (%) |
|---|---|---|---|
| **CBDVA** | 0.0005 | <LOQ | <LOQ |
| **CBDV** | 0.0012 | <LOQ | <LOQ |
| **CBDA** | 0.0008 | <LOQ | <LOQ |
| **CBGA** | 0.0008 | <LOQ | <LOQ |
| **CBG** | 0.0019 | <LOQ | <LOQ |
| **CBD** | 0.0019 | <LOQ | <LOQ |
| **THCV** | 0.0021 | <LOQ | <LOQ |
| **CBN** | 0.0013 | <LOQ | <LOQ |
| **Δ9-THC** | 0.0020 | 0.44 | 0.04 |
| **Δ8-THC** | 0.0019 | <LOQ | <LOQ |
| **THC-A** | 0.0034 | <LOQ | <LOQ |
| **CBC** | 0.0024 | <LOQ | <LOQ |
| **Total THC** | | 0.44 | 0.04 |
| **Total CBD** | | <LOQ | <LOQ |
| **Total Cannabinoids** | | 0.44 | 0.04 |

| | |
|---|---|
| 0.04% **Total THC** | <LOQ **Total CBD** |
| 0.04% **Total Cannabinoids** | 0.04% **Δ9-THC** |
| 10.137 g **Sample Weight** | N/A **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

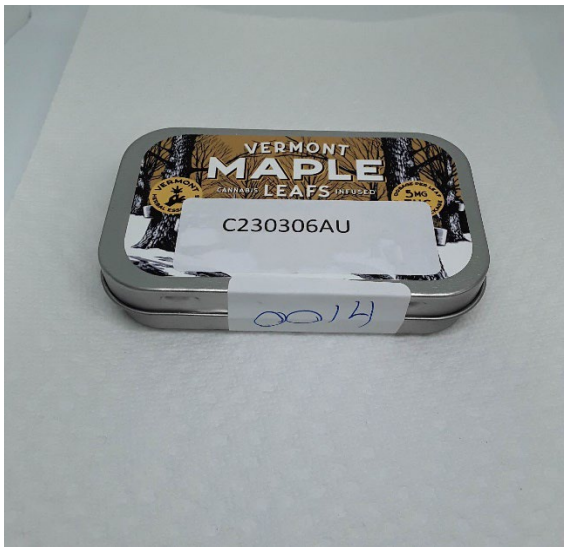
LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

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.

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