

HIGH NORTH ID:  
00453950  
Date: 2024-03-18  
Certificate: 1710782993



High North Inc.  
241 Hanlan Rd, Unit 7  
Woodbridge, ON, L4L 3R7  
1-416-864-6119  
LIC-P4PNJMAC20-2022

Client: [REDACTED],  
Name: [REDACTED]

Product: DRIED CANNABIS  
Lot: DTX-003E  
Matrix: Flower  
Sub-matrix: Dried Flower  
Sampled: 2024-03-12  
Received: 2024-03-13

Certificate of Analysis

| Cannabinoid Analysis                  | LOD (%) | LOQ (%) | wt%     | mg/g     |
|---------------------------------------|---------|---------|---------|----------|
| Total THC [(THCA x 0.877) + D9-THC]   |         |         | 28.5998 | 285.9973 |
| Total CBD [(CBDA x 0.877) + CBD]      |         |         | 0.0872  | 0.8722   |
| THCA-A                                | 0.03    | 0.06    | 31.9629 | 319.6290 |
| CBGA                                  | 0.03    | 0.06    | 1.4811  | 14.8106  |
| D9-THC                                | 0.03    | 0.06    | 0.5683  | 5.6827   |
| CBCA                                  | 0.03    | 0.06    | 0.3688  | 3.6878   |
| THCVA                                 | 0.03    | 0.06    | 0.2451  | 2.4507   |
| CBG                                   | 0.03    | 0.06    | 0.1586  | 1.5864   |
| CBDA                                  | 0.03    | 0.06    | 0.0994  | 0.9945   |
| CBC                                   | 0.03    | 0.06    | ND      | ND       |
| D8-THC                                | 0.03    | 0.06    | ND      | ND       |
| CBCVA                                 | 0.03    | 0.06    | ND      | ND       |
| CBN                                   | 0.03    | 0.06    | ND      | ND       |
| CBCV                                  | 0.03    | 0.06    | ND      | ND       |
| THCV                                  | 0.03    | 0.06    | ND      | ND       |
| CBD                                   | 0.03    | 0.06    | ND      | ND       |
| CBDV                                  | 0.03    | 0.06    | ND      | ND       |
| CBDVA                                 | 0.03    | 0.06    | ND      | ND       |
| Total of all quantified cannabinoids: |         |         | 34.8842 | 348.8417 |

| Moisture Analysis                  | Result |
|------------------------------------|--------|
| Loss on Drying (Moisture Analyzer) | 10.57% |

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, \* = Mixture of Isomers

Authorized by: [Signature]  
Ryan Lee  
Quality Assurance

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## Details of Testing

### Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC  
LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC  
LAB-MTD-051: Assay of Cannabinoids in Cannabis Flower as per DAB by HPLC  
LAB-MTD-052: Identification of CBD and THCA as per DAB by Thin-Layer Chromatography

### Terpene Analysis

LAB-MTD-044: Determination of Terpene Content in Cannabis Dried Flower, Fresh Flower and Extracts by GC-MS

### Pesticide Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS  
LAB-MTD-040: Determination of EP 2.8.13 Pesticide Residues in Cannabis Extracts by GC-MS/MS  
LAB-MTD-041: Determination of EP 2.8.13/USP 561 Pesticide Residues in Cannabis Flower by GC-MS/MS and LC-MS/MS  
LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS  
LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS  
LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

### Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS  
LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS  
LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS  
LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS  
LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

### Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

### Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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# Details of Testing

## Microbial Analysis

- MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR
- MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA
- MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques
- MIC-MTD-009: Cannabis Gender Determination by qPCR
- MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph
- MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products
- MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products
- MIC-MTD-012: Microbial Analysis of Cannabis and Cannabis Infused Products by TEMPO

## Moisture Analysis

- LAB-MTD-017: Determination of Moisture Content in Cannabis Flower
- LAB-MTD-031: Water Activity Meter Setup and Operation
- LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum Oven
- LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

## Sample Appearance and Foreign Matter

- LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

## Total Ash Analysis

- LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

## Residual Solvents Analysis

- LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS
- LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS
- LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS
- LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS
- LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

## Heavy Metal Analysis

- LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS
- LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS
- LAB-MTD-058: Determination of Palladium (Pd) in Cannabis Dried Flower, Fresh Flower and Extracts by ICP-MS

## pH Analysis

- MIC-MTD-013: Determination of pH using pH Meter

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