

HIGH NORTH ID:
00433540
Date: 2024-02-09
Certificate: 1707491570



High North Inc.
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Woodbridge, ON, L4L 3R7
1-416-864-6119
LIC-P4PNJMAC20-2022

Client:	Lyonleaf Cannabis Inc 5000 Chemin Saint-François, Saint-Laurent, QC, H4S 1J8	Product:	Dried Cannabis
Name:	Lola Millerman 647-833-3363 lola.millerman@lyonleaf.com	Lot:	S0202Y4D1011(1)
		Matrix:	Flower
		Sub-matrix:	Dried Flower
		Sampled:	2024-01-24
		Received:	2024-01-25

Certificate of Analysis


Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			27.1433	271.4327
Total CBD [(CBDA x 0.877) + CBD]			0.0826	0.8263
THCA-A	0.03	0.06	30.6515	306.5154
CBGA	0.03	0.06	0.7557	7.5571
CBCA	0.03	0.06	0.3418	3.4179
D9-THC	0.03	0.06	0.2619	2.6187
THCVA	0.03	0.06	0.2196	2.1963
CBG	0.03	0.06	0.1806	1.8064
CBDA	0.03	0.06	0.0942	0.9422
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:			32.5053	325.0540

Moisture Analysis	Result
Loss on Drying (Moisture Analyzer)	8.65%

Comments

Anhydrous potency results reported.
This COA cancels and supersedes certificate ID 1706746696 dated 2024-01-31

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: 
Krishna Patel
Quality Assurance

ISO 17025:2017
Accredited Laboratory





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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