

HIGH NORTH ID:
00159619
Date: 2022-03-31
Certificate: 1648762077



High North Inc.
241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6119
LIC-P4PNJMAC20-2019

Client: Alberta Craft Cannabis
5705-99 St.,
Edmonton, AB, T6E 3N8
Name: Senait Tecmariam
587-759-2552
senait@albertacraft.com
Strain: Lee Anne WoMac
Lot: AC32721LAW-F
Matrix: Flower
Sub-matrix: N/A
Sampled: 2022-03-28
Received: 2022-03-29

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			27.532	275.323
Total CBD [(CBDA x 0.877) + CBD]			0.065	0.649
THCA-A	0.0090	0.03	30.959	309.586
CBGA	0.0041	0.03	2.693	26.935
D9-THC	0.0093	0.03	0.382	3.816
CBG	0.0094	0.03	0.159	1.592
CBDA	0.0100	0.03	0.074	0.74
D8-THC	0.0137	0.03	ND	ND
CBC	0.0060	0.03	ND	ND
CBN	0.0067	0.03	ND	ND
CBD	0.0069	0.03	ND	ND
THCV	0.0093	0.03	ND	ND
CBDV	0.0090	0.03	ND	ND
Total of all quantified cannabinoids:			34.267	342.669

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Terpinolene	0.0003	0.005	1.15
Farnesene*	0.0009	0.005	0.576
Alpha-Phellandrene	0.0002	0.005	0.494
Trans-Caryophyllene	0.0002	0.005	0.408
(R)-(+)-Limonene	0.0001	0.005	0.214
Beta-Myrcene	0.0003	0.005	0.183
Ocimene*	0.0004	0.005	0.17
Beta-Pinene	0.0002	0.005	0.136
Linalool	0.0003	0.005	0.119
Alpha-Pinene	0.0003	0.005	0.111
Alpha-Humulene	0.0010	0.005	0.078

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:

Will Zhang, Quality Assurance Specialist

Terpene Analysis	LOD (%)	LOQ (%)	wt%
(1S)-3-Carene	0.0007	0.005	0.072
Terpineol*	0.0001	0.005	0.067
Alpha-Terpinene	0.0003	0.005	0.063
alpha-Bisabolol	0.0003	0.005	0.062
(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.027
Gamma-Terpinene	0.0003	0.005	0.027
Sabinene	0.0013	0.005	0.021
trans-Nerolidol	0.0004	0.005	0.017
Caryophyllene oxide	0.0008	0.005	0.013
Camphene	0.0002	0.005	0.008
Sabinene Hydrate	0.0001	0.005	0.007
Eucalyptol	0.0007	0.005	0.006
Citronellol	0.0003	0.005	BLQ
Fenchone*	0.0003	0.005	BLQ
Phytol*	0.0013	0.010	ND
(+)-Cedrol	0.0010	0.005	ND
Guaiol	0.0003	0.005	ND
Valencene	0.0002	0.005	ND
cis-Nerolidol	0.0003	0.005	ND
Eugenol	0.0004	0.010	ND
Alpha-Cedrene	0.0002	0.005	ND
Geranyl acetate	0.0002	0.005	ND
Pulegone	0.0002	0.005	ND
Geraniol	0.0007	0.005	ND
Nerol	0.0002	0.005	ND
Isoborneol	0.0002	0.005	ND
Camphor + Borneol*	0.0003	0.010	ND
Hexahydrothymol	0.0005	0.005	ND
Isopulegol	0.0004	0.005	ND
p-Cymene	0.0003	0.005	ND
Total of all quantified terpenes:			4.029

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Details of Testing

Cannabinoid Analysis

Analysis of 11 Cannabinoids by HPLC & UHPLC

Method LAB-MTD-020: Flower (LOQ 0.06%), Oil (LOQ 0.03%), Concentrates (LOQ 0.6%)

Method LAB-MTD-021: Isolates (LOQ 0.06%)

Method LAB-MTD-023: Tablets & Granules (LOQ 0.025%)

Method LAB-MTD-030: Topicals (LOQ 0.005%)

Terpene Analysis

Profile of 42 terpenes by GC/MS

Method LAB-MTD-035: Cannabis Flower, Oil

Pesticide Analysis

Determination of 96 Pesticide Residues by LC/MS/MS and GC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Mycotoxin Analysis

Determination of Aflatoxins B1, B2, G1, G2 and Ochratoxin-A by LC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Method LAB-MTD-029: Tablets

Method LAB-MTD-037: Topicals

Heavy Metal Analysis

Determination of Heavy Metal contamination (Arsenic, Cadmium, Lead & Mercury) by ICP/MS

Method LAB-MTD-027: Cannabis Flower, Oil, Topicals, Tablets

Residual Solvents Analysis

Determination of 24 Residual Solvents by GC/MS

Method LAB-MTD-036: Cannabis Oil

Method LAB-MTD-028: Tablets

Determination of Butane and Propane Residual Solvents in Cannabis Oil

Method LAB-MTD-034 (GC/MS): Cannabis Oil

Microbial Analysis, Powdery Mildew & Gender Determination

Molecular detection and quantitation by PCR & qPCR

Cannabis Flower, Oil, Cannabis-Infused Products

Method MIC-MTD-001 (TAMC, TYMC, BTGN, E.coli, Salmonella, Staph/Pseudomonas)

Method MIC-MTD-005: (Powdery Mildew & Gender Determination)

Moisture Analysis

Water Activity & Moisture Content (Loss on Drying)

Method LAB-MTD-017 (Loss on Drying; Dry flower only)

Method LAB-MTD-031 (Water activity, a_w)

Foreign Matter Analysis

Visual/Magnified Inspection for Foreign Matter

Method LAB-MTD-022

Information is accurate unless otherwise stated. The results of this report are reflective only to material and product analyzed as received. This report shall not be reproduced, without written approval from High North Laboratories. Test Results are confidential unless explicitly waived otherwise.

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