

HIGH NORTH ID:
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Certificate: 1655822589



High North Inc.
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Woodbridge, ON, L4L 3R7
1-416-864-6119
LIC-P4PNJMAC20-2019

Client: North 40 Cannabis
PO Box 2684,
Nipawin, SK, S0E 1E0
Name: Gord Nichol
780-907-9220
gord@north40cannabis.com
Strain: Ladies Night
Lot: LNTHB124130132
Matrix: Oil
Sub-matrix: Hash
Sampled: 2022-06-14
Received: 2022-06-16

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			44.091	440.911
Total CBD [(CBDA x 0.877) + CBD]			0	0
D9-THC	0.0086	0.03	34.502	345.021
THCA-A	0.004	0.03	10.934	109.339
CBGA	0.007	0.03	1.956	19.557
CBG	0.0028	0.03	1.451	14.508
CBC	0.0092	0.03	BLQ	BLQ
D8-THC	0.0074	0.03	ND	ND
THCV	0.0068	0.03	ND	ND
CBN	0.0069	0.03	ND	ND
CBD	0.0081	0.03	ND	ND
CBDV	0.0073	0.03	ND	ND
CBDA	0.008	0.03	ND	ND
Total of all quantified cannabinoids:			48.843	488.425

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Farnesene*	0.0021	0.025	1.124
Trans-Caryophyllene	0.0016	0.025	0.774
Linalool	0.0014	0.025	0.652
(R)-(+)-Limonene	0.0023	0.025	0.317
alpha-Bisabolol	0.0022	0.025	0.273
Alpha-Humulene	0.0017	0.025	0.237
Terpineol*	0.0013	0.025	0.176
(R)-Endo-(+)-Fenchyl	0.0013	0.025	0.134
trans-Nerolidol	0.0025	0.025	0.073
Beta-Myrcene	0.0012	0.025	0.073
Ocimene*	0.0030	0.025	0.044

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%
Beta-Pinene	0.0016	0.025	0.04
Alpha-Pinene	0.0013	0.025	0.04
Caryophyllene oxide	0.0023	0.025	0.033
Terpinolene	0.0018	0.025	BLQ
Camphor + Borneol*	0.0013	0.050	BLQ
Fenchone*	0.0014	0.025	BLQ
Phytol*	0.0028	0.050	ND
(+)-Cedrol	0.0023	0.025	ND
Guaiol	0.0016	0.025	ND
cis-Nerolidol	0.0028	0.025	ND
Valencene	0.0015	0.025	ND
Eugenol	0.0019	0.025	ND
Alpha-Cedrene	0.0016	0.025	ND
Pulegone	0.0011	0.025	ND
Geranyl acetate	0.0015	0.025	ND
Nerol	0.0023	0.025	ND
Geraniol	0.0020	0.025	ND
Citronellol	0.0014	0.025	ND
Isoborneol	0.0013	0.025	ND
Isopulegol	0.0011	0.025	ND
Hexahydrothymol	0.0020	0.025	ND
Gamma-Terpinene	0.0014	0.025	ND
Sabinene Hydrate	0.0011	0.025	ND
p-Cymene	0.0010	0.025	ND
Eucalyptol	0.0028	0.025	ND
Alpha-Phellandrene	0.0018	0.025	ND
Alpha-Terpinene	0.0021	0.025	ND
(1S)-3-Carene	0.0020	0.025	ND
Camphene	0.0019	0.025	ND
Sabinene	0.0017	0.025	ND
Total of all quantified terpenes:			3.990

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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%)

Method LAB-MTD-039: Determination of 5 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0002%) and Solid Edibles (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

Method LAB-MTD-040: Determination of EP Pesticide Residue in Cannabis Oil by GCMSMS

Method LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related Products by GCMSMS

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

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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Details of Testing

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)

Method MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA

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

Total Ash Analysis

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

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