

HIGH NORTH ID:
00065885
Date: 2021-07-15
Certificate: 1626373024



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

Client:	North 40 Cannabis PO Box 2684, Nipawin, SK, S0E 1E0	Strain:	Platinum OG
Name:	Gord Nichol 780-907-9220 gord@north40cannabis.com	Lot:	OGHRB414243A
		Matrix:	Oil
		Sub-matrix:	Hash Rosin
		Sampled:	2021-07-08
		Received:	2021-07-12

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			68.876	688.763
Total CBD [(CBDA x 0.877) + CBD]			0	0
THCA-A	0.004	0.03	72.373	723.731
D9-THC	0.0086	0.03	5.405	54.051
CBGA	0.007	0.03	2.817	28.17
CBG	0.0028	0.03	0.609	6.092
CBDA	0.008	0.03	BLQ	BLQ
THCV	0.0068	0.03	BLQ	BLQ
CBC	0.0092	0.03	ND	ND
D8-THC	0.0074	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
Total of all quantified cannabinoids:			81.204	812.044

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Farnesene-2	0.0001	0.01	2.916
Trans-Caryophyllene	0.0001	0.01	2.713
(R)-(+)-Limonene	0.0001	0.01	1.727
Linalool	0.0001	0.01	0.812
alpha-Humulene	0.0001	0.01	0.668
Terpineol (mix of isomers)	0.0001	0.01	0.345
alpha-Bisabolol	0.0001	0.01	0.328
beta-Pinene	0.0001	0.01	0.24
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.237
beta-Myrcene	0.0001	0.02	0.201
alpha-Pinene	0.0001	0.01	0.179

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

Authorized by:

Ryan Lee
Quality Assurance

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Caryophyllene oxide	0.0001	0.01	0.079
Camphene	0.0001	0.01	0.063
Phytol	0.0001	0.06	BLQ
Terpinolene	0.0001	0.01	0.028
Borneol (isomers)	0.0001	0.01	0.027
trans-beta-Ocimene	0.0001	0.01	0.024
Fenchone (mix of isomers)	0.0001	0.01	0.023
Geraniol	0.0001	0.01	0.02
Ocimene (mixture of	0.0001	0.01	0.019
Sabinene Hydrate	0.0001	0.01	0.014
Eucalyptol	0.0001	0.01	0.014
gamma-Terpinene	0.0001	0.01	0.012
(1S)-3-Carene	0.0001	0.01	0.011
(+)-Cedrol	0.0001	0.01	ND
trans-Nerolidol	0.0001	0.01	ND
Guaiol	0.0001	0.01	ND
Valencene	0.0001	0.01	ND
cis-Nerolidol	0.0001	0.01	ND
Farnesene-1	0.0001	0.01	ND
alpha-Cedrene	0.0001	0.01	ND
Pulegone	0.0001	0.01	ND
Geraniol acetate	0.0001	0.01	ND
gamma-Terpineol	0.0001	0.01	ND
Nerol	0.0001	0.01	ND
Camphor (mix of isomers)	0.0001	0.01	ND
Isoborneol	0.0001	0.01	ND
Hexahydrothymol	0.0001	0.01	ND
Isopulegol	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
alpha-Phellandrene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND
Total of all quantified terpenes:			10.700

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Mycotoxin Analysis	LOD (ppb)	LOQ (ppb)	RL (ppb)	Result (ppb)	
Aflatoxin-B1	0.9	2	2	ND	PASS
Aflatoxin-B2	0.8	2		ND	PASS
Aflatoxin-G1	0.9	2		ND	PASS
Aflatoxin-G2	0.8	2		ND	PASS
Sum of Aflatoxins:			4	0	PASS
Ochratoxin-A	9.4	20	20	ND	PASS

Microbial Analysis		RL (CFU/g)	Result (CFU/g)	Status
Total Aerobic Count		500,000	ND	PASS
Bile-Tolerant Gram-Negative		10,000	ND	PASS
Total Yeast and Mold Count		50,000	ND	PASS
E.coli/Salmonella			Absent in 10g	PASS
S.aureus/P.aeruginosa			Absent in 1g	PASS

Heavy Metals Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Arsenic	0.05	0.2	0.2	ND	PASS
Cadmium	0.01	0.05	0.3	ND	PASS
Lead	0.02	0.5	0.5	ND	PASS
Mercury	0.01	0.05	0.1	ND	PASS

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Residual Solvents Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
1-Butanol	22.7	1000	5,000	ND	PASS
1-Pentanol	28.9	1000	5,000	ND	PASS
1-Propanol	44.6	1000	5,000	ND	PASS
2-Butanol	20.1	1000	5,000	ND	PASS
2-Methyl-1-propanol	11.6	1000	5,000	ND	PASS
2-Propanol	13.3	1000	5,000	ND	PASS
3-Methyl-1-butanol	16.8	1000	5,000	ND	PASS
Acetone	19.4	1000	5,000	ND	PASS
Anisole	104	1000	5,000	ND	PASS
Butyl acetate	67.3	1000	5,000	ND	PASS
Dimethyl sulfoxide	55.8	1000	5,000	ND	PASS
Ethanol	34.5	1000	5,000	ND	PASS
Ethyl acetate	17.3	1000	5,000	ND	PASS
Ethyl ether	27	1000	5,000	ND	PASS
Ethyl formate	92.5	1000	5,000	ND	PASS
Heptane	19.2	1000	5,000	ND	PASS
Isobutyl acetate	28.4	1000	5,000	ND	PASS
Isopropyl acetate	13.5	1000	5,000	ND	PASS
Methyl acetate	26.9	1000	5,000	ND	PASS
Methylethyl ketone	13.1	1000	5,000	ND	PASS
Pentane	35.7	1000	5,000	ND	PASS
Propyl acetate	13.5	1000	5,000	ND	PASS
Tert-Butylmethyl ether	134.2	1000	5,000	ND	PASS
Triethylamine	22.4	1000	5,000	ND	PASS

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Details of Testing

Cannabinoid Analysis

Analysis of 11 Cannabinoids by HPLC & UHPLC

LOQ of 0.3% for Resins/Distillates/Isolates; 0.025% for Tablets; 0.03% for Flower/Oil Samples

HIGH NORTH Laboratories Methods: LAB-MTD-020, LAB-MTD-021, LAB-MTD-023 & LAB-MTD-030

Terpene Analysis

Profile of 42 Terpenes by GC-MS/MS

Cannabis Flower, Oil

HIGH NORTH Laboratories Method: LAB-MTD-018

Moisture Analysis

Water Activity & Moisture Content (Loss on Drying)

HIGH NORTH Laboratories Method: LAB-MTD-031 & LAB-MTD-017

Microbial Analysis, Powdery Mildew & Gender Determination

Molecular detection and quantitation by PCR & qPCR

Cannabis Flower, Cannabis-Infused Products

HIGH NORTH Laboratories Method: MIC-MTD-001 & MIC-MTD-005

Mycotoxin Analysis

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

Cannabis Flower, Oil, Tablets

HIGH NORTH Laboratories Method: LAB-MTD-010, LAB-MTD-029

Heavy Metal Analysis

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

Cannabis Flower, Oil, Topicals, Tablets

HIGH NORTH Laboratories Method: LAB-MTD-027

Residual Solvents Analysis

Determination of 25 Residual Solvents by GC-MS/MS

Cannabis Oil, Tablets

HIGH NORTH Laboratories Method: LAB-MTD-005 & LAB-MTD-028

Pesticide Analysis

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

Cannabis Flower, Oil

HIGH NORTH Laboratories Method: LAB-MTD-010

Determination of Butane and Propane Residual Solvents in Cannabis Oil

HIGH NORTH Laboratories Method: LAB-MTD-034

Foreign Matter Analysis

Visual/Magnified Inspection for Foreign Matter

HIGH NORTH Laboratories Method: LAB-MTD-022

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