

HIGH NORTH ID:
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Certificate: 1689023509



High North Inc.
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LIC-P4PNJMAC20-2022

Client: ANC Cannabis
6914 34 St NW,
Edmonton, AB, T6B 2X2
Name: Tairance
780-809-2828
tairance@anccannabis.com

Product: Mandarin Mint
Lot: ANC-1061
Matrix: Flower
Sub-matrix: Pre-roll
Sampled: 2023-06-28
Received: 2023-07-01

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			30.834	308.337
Total CBD [(CBDA x 0.877) + CBD]			0.163	1.63
D9-THC	0.0086	0.03	17.613	176.128
THCA-A	0.004	0.03	15.075	150.751
CBG	0.0028	0.03	1.49	14.905
CBGA	0.007	0.03	0.741	7.411
CBC	0.0092	0.03	0.4	4.003
CBN	0.0069	0.03	0.309	3.086
THCV	0.0068	0.03	0.263	2.633
CBDA	0.008	0.03	0.186	1.859
D8-THC	0.0074	0.03	ND	ND
CBD	0.0081	0.03	ND	ND
CBDV	0.0073	0.03	ND	ND
Total of all quantified cannabinoids:			36.078	360.776

Foreign Matter Analysis None Detected

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

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Ryan Lee
Quality Assurance

Mycotoxin Analysis	LOD (ppb)	LOQ (ppb)	RL (ppb)	Result (ppb)	Status
Aflatoxin-B1	0.4000	2	2	ND	PASS
Aflatoxin-B2	0.4000	2		ND	PASS
Aflatoxin-G1	0.3000	2		ND	PASS
Aflatoxin-G2	0.5000	2		ND	PASS
Sum of Aflatoxins:			4	0	PASS
Ochratoxin-A	1.7000	20	20	ND	PASS

Microbial Analysis	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
Total Aerobic Count	12	10,000	ND	PASS
Total Yeast and Mold Count	1.8	1,000	ND	PASS
Bile-Tolerant Gram-Negative	5	1,000	ND	PASS
S.aureus/P.aeruginosa			Absent in 1g	PASS
Salmonella			Absent in 10g	PASS
E.coli			Absent in 1g	PASS

Heavy Metals Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Arsenic	0.067	0.200	0.2	ND	PASS
Cadmium	0.008	0.047	0.3	ND	PASS
Lead	0.010	0.497	0.5	ND	PASS
Mercury	0.003	0.052	0.1	BLQ	PASS

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Residual Solvents Analysis	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
1-Butanol	136.46	1000	5,000	ND	PASS
1-Pentanol	102.40	1000	5,000	ND	PASS
1-Propanol	199.71	1000	5,000	ND	PASS
2-Butanol	48.38	1000	5,000	ND	PASS
2-Methyl-1-propanol	153.28	1000	5,000	ND	PASS
2-Propanol	142.60	1000	5,000	ND	PASS
3-Methyl-1-butanol	64.03	1000	5,000	ND	PASS
Acetone	81.47	1000	5,000	ND	PASS
Anisole	54.77	1000	5,000	ND	PASS
Butyl acetate	40.51	1000	5,000	ND	PASS
Dimethyl sulfoxide	96.05	1000	5,000	ND	PASS
Ethanol	179.88	1000	5,000	ND	PASS
Ethyl acetate	89.17	1000	5,000	ND	PASS
Ethyl ether	105.42	1000	5,000	ND	PASS
Ethyl formate	194.93	1000	5,000	ND	PASS
Heptane	109.56	1000	5,000	ND	PASS
Isobutyl acetate	48.49	1000	5,000	ND	PASS
Isopropyl acetate	118.80	1000	5,000	ND	PASS
Methyl acetate	87.65	1000	5,000	ND	PASS
Methylethyl ketone	97.35	1000	5,000	ND	PASS
Pentane	102.77	1000	5,000	ND	PASS
Propyl acetate	58.63	1000	5,000	ND	PASS
Tert-Butylmethyl ether	115.57	1000	5,000	ND	PASS
Triethylamine	22.07	1000	5,000	ND	PASS

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Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 11 Cannabinoids in Cannabis Flower (LOQ 0.06%), Fresh Flower (LOQ 0.015%), Oil (LOQ 0.03%) and Concentrates (LOQ 0.6%) by HPLC and UHPLC

LAB-MTD-021: Determination of Cannabinoids of Individually Isolated Sample by HPLC/UHPLC

LAB-MTD-023: Determination of 11 Cannabinoids in Cannabis Tablets and Granules (LOQ 0.025%) by HPLC/UHPLC

LAB-MTD-030: Determination of 11 Cannabinoids in Cannabis Topicals (LOQ 0.005%) by HPLC/UHPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0005%) and Solid Edibles (LOQ 0.005%) by UHPLC

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 Pesticide and Mycotoxins in Cannabis by LC-MS/MS and GC-MS/MS

LAB-MTD-040: Determination of EP Pesticide Residues in Cannabis Oil and Related Products by GC-MS/MS

LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related Products by GC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticide Residues and Toxins in Cannabis Oil and Related Products 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

Mycotoxin Analysis

LAB-MTD-010: Determination of Pesticide and Mycotoxins in Cannabis 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

Heavy Metal Analysis

LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, Rolling Papers, and Related Products by ICP-MS

Flavonoid Analysis

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

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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

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

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

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