

HIGH NORTH ID:
00030118
Date: 2021-02-09



241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6119

Client:

Name:



Strain: KARMA
Lot: DC--09
Matrix: Flower
Sampled: 2021-02-02
Received: 2021-02-03

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			24.576	245.762
Total CBD [(CBDA x 0.877) + CBD]			0.062	0.623
THCA-A	0.0090	0.03	27.741	277.406
CBGA	0.0041	0.03	1.059	10.585
D9-THC	0.0093	0.03	0.248	2.477
CBG	0.0094	0.03	0.103	1.027
CBDA	0.0100	0.03	0.071	0.71
CBC	0.0060	0.03	0.031	0.311
D8-THC	0.0137	0.03	ND	ND
THCV	0.0093	0.03	ND	ND
CBN	0.0067	0.03	ND	ND
CBD	0.0069	0.03	ND	ND
CBDV	0.0090	0.03	ND	ND

Terpene Analysis	LOD (%)	LOQ (%)	wt%
(R)-(+)-Limonene	0.0001	0.01	0.862
Trans-Caryophyllene	0.0001	0.01	0.545
Farnesene-2	0.0001	0.01	0.334
Linalool	0.0001	0.01	0.298
alpha-Pinene	0.0001	0.01	0.291
beta-Pinene	0.0001	0.01	0.178
Terpineol (mix of isomers)	0.0001	0.01	0.154
Guaiol	0.0001	0.01	0.149
Ocimene (mixture of	0.0001	0.01	0.14
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.137
alpha-Humulene	0.0001	0.01	0.131
alpha-Bisabolol	0.0001	0.01	0.093
beta-Myrcene	0.0001	0.01	0.059

Abbreviations: wt% = percentage of dry 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:

Krishna Patel
Quality Assurance

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Camphene	0.0001	0.01	0.03
Phytol	0.0001	0.06	ND
(+)-Cedrol	0.0001	0.01	ND
Caryophyllene oxide	0.0001	0.01	ND
trans-Nerolidol	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
Nerol	0.0001	0.01	ND
Geraniol	0.0001	0.01	ND
gamma-Terpineol	0.0001	0.01	ND
Borneol (isomers)	0.0001	0.01	ND
Isoborneol	0.0001	0.01	ND
Hexahydrothymol	0.0001	0.01	ND
Isopulegol	0.0001	0.01	ND
Camphor (mix of isomers)	0.0001	0.01	ND
Fenchone (mix of isomers)	0.0001	0.01	ND
Terpinolene	0.0001	0.01	ND
Sabinene Hydrate	0.0001	0.01	ND
Eucalyptol	0.0001	0.01	ND
gamma-Terpinene	0.0001	0.01	ND
trans-beta-Ocimene	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
(1S)-3-Carene	0.0001	0.01	ND
alpha-Phellandrene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND
Total of all quantified terpenes:			3.401

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Details of Testing

Cannabinoid Analysis

Analysis of 11 cannabinoids by HPLC & UHPLC

LOQ is 0.3% for resins/distillates/isolates, 0.03% for flower/oil samples

HIGH NORTH Laboratories Method: LAB-MTD-020 & LAB-MTD-023

Terpene Analysis

Profiling for 42 terpenes by GC-MS/MS

HIGH NORTH Laboratories Method: LAB-MTD-018

Moisture Analysis

Water Activity & Moisture Content

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

Microbial Analysis, Powdery Mildew & Gender Determination

Molecular detection and quantitation by qPCR

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

HIGH NORTH Laboratories Method: LAB-MTD-010

Heavy Metal Analysis

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

HIGH NORTH Laboratories Method: LAB-MTD-027

Residual Solvents Analysis

Determination of 24 Residual Solvents in Cannabis Oil and Tablets by GC-MS/MS

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

HIGH NORTH Laboratories Method: LAB-MTD-010

Foreign Matter Analysis

Visual/Magnified Detection of Foreign Matter

HIGH NORTH Laboratories Method: LAB-MTD-022

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