

HIGH NORTH ID:
00053975
Date: 2021-05-27
Certificate: 1622141382



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

Client: Mother Labs
#115 343 70th STREET,
SASKATOON, SK, CANADA,
Saskatoon, SK, S7P0E3

Name: [REDACTED]

Strain: Kush Cake
Lot: SAM2105-046
Matrix: Flower
Sub-matrix: Dried Flower
Sampled: 2021-05-20
Received: 2021-05-21

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			24.129	241.287
Total CBD [(CBDA x 0.877) + CBD]			0.109	1.085
THCA-A	0.0090	0.03	27.05	270.496
CBGA	0.0041	0.03	2.222	22.216
D9-THC	0.0093	0.03	0.406	4.062
CBG	0.0094	0.03	0.124	1.243
CBDA	0.0100	0.03	0.124	1.237
CBC	0.0060	0.03	ND	ND
D8-THC	0.0137	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: **29.925** **299.254**

Terpene Analysis	LOD (%)	LOQ (%)	wt%
(R)-(+)-Limonene	0.0001	0.01	0.47
Trans-Caryophyllene	0.0001	0.01	0.34
Linalool	0.0001	0.01	0.2
Terpineol (mix of isomers)	0.0001	0.01	0.085
alpha-Humulene	0.0001	0.01	0.081
Guaiol	0.0001	0.01	0.07
beta-Pinene	0.0001	0.01	0.069
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.06
alpha-Pinene	0.0001	0.01	0.054
alpha-Bisabolol	0.0001	0.01	0.024

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%
Farnesene-2	0.0001	0.01	0.023
beta-Myrcene	0.0001	0.01	0.022
Valencene	0.0001	0.01	0.015
Camphene	0.0001	0.01	0.015
Caryophyllene oxide	0.0001	0.01	BLQ
trans-Nerolidol	0.0001	0.01	BLQ
Geraniol	0.0001	0.01	BLQ
Citronellol	0.0001	0.01	BLQ
Phytol	0.0001	0.06	BLQ
Terpinolene	0.0001	0.01	BLQ
trans-beta-Ocimene	0.0001	0.01	BLQ
Fenchone (mix of isomers)	0.0001	0.01	BLQ
(+)-Cedrol	0.0001	0.01	ND
cis-Nerolidol	0.0001	0.01	ND
Eugenol	0.0001	0.01	ND
Geraniol acetate	0.0001	0.01	ND
alpha-Cedrene	0.0001	0.01	ND
Pulegone	0.0001	0.01	ND
Nerol	0.0001	0.01	ND
gamma-Terpineol	0.0001	0.01	ND
Camphor (mix of isomers)	0.0001	0.01	ND
Hexahydrothymol	0.0001	0.01	ND
Isoborneol	0.0001	0.01	ND
Isopulegol	0.0001	0.01	ND
Sabinene Hydrate	0.0001	0.01	ND
Ocimene (mixture of	0.0001	0.01	ND
gamma-Terpinene	0.0001	0.01	ND
p-Isopropyltoluene (p-	0.0001	0.01	ND
Eucalyptol	0.0001	0.01	ND
alpha-Phellandrene	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
(1S)-3-Carene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND
Total of all quantified terpenes:			1.528

Moisture Analysis 8.74%

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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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