

HIGH NORTH ID:
00034845
Date: 2021-03-05
Serial #: 1614953098



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: Z-Splitter
Lot: Sample-005
Matrix: Flower
Sub-matrix: N/A
Sampled: 2021-03-01
Received: 2021-03-02

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			26.946	269.463
Total CBD [(CBDA x 0.877) + CBD]			0.087	0.873
THCA-A	0.0090	0.03	29.953	299.531
CBGA	0.0041	0.03	1.107	11.073
D9-THC	0.0093	0.03	0.677	6.774
CBG	0.0094	0.03	0.185	1.849
CBDA	0.0100	0.03	0.1	0.995
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:			32.022	320.222

Terpene Analysis	LOD (%)	LOQ (%)	wt%
(R)-(+)-Limonene	0.0001	0.01	0.745
Trans-Caryophyllene	0.0001	0.01	0.584
Linalool	0.0001	0.01	0.385
beta-Myrcene	0.0001	0.01	0.272
alpha-Humulene	0.0001	0.01	0.131
Terpineol (mix of isomers)	0.0001	0.01	0.105
beta-Pinene	0.0001	0.01	0.088
alpha-Bisabolol	0.0001	0.01	0.068
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.063
alpha-Pinene	0.0001	0.01	0.062

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:


Krishna Patel
Quality Assurance

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Valencene	0.0001	0.01	0.045
Farnesene-2	0.0001	0.01	0.043
Phytol	0.0001	0.06	BLQ
cis-Nerolidol	0.0001	0.01	0.018
Citronellol	0.0001	0.01	0.016
Caryophyllene oxide	0.0001	0.01	BLQ
Terpinolene	0.0001	0.01	BLQ
Geraniol	0.0001	0.01	BLQ
alpha-Cedrene	0.0001	0.01	BLQ
Fenchone (mix of isomers)	0.0001	0.01	BLQ
Geraniol acetate	0.0001	0.01	BLQ
(+)-Cedrol	0.0001	0.01	ND
Guaiol	0.0001	0.01	ND
trans-Nerolidol	0.0001	0.01	ND
Eugenol	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 gamma-Terpinene	0.0001	0.01	ND
p-Isopropyltoluene (p- Eucalyptol	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
Camphene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND

Total of all quantified terpenes: **2.625**

Moisture Analysis 8.08%

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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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