

HIGH NORTH ID:  
00034842  
Date: 2021-03-05  
Serial #: 1614952785



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: Gelato #33  
Lot: Sample-002  
Matrix: Flower  
Sub-matrix: N/A  
Sampled: 2021-03-01  
Received: 2021-03-02

## Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
<b>Total THC [(THCA x 0.877) + D9-THC]</b>			<b>20.143</b>	<b>201.427</b>
Total CBD [(CBDA x 0.877) + CBD]			0.071	0.707
THCA-A	0.0090	0.03	22.634	226.337
CBGA	0.0041	0.03	1.199	11.991
D9-THC	0.0093	0.03	0.293	2.929
CBDA	0.0100	0.03	0.081	0.806
CBG	0.0094	0.03	0.074	0.735
CBC	0.0060	0.03	ND	ND
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

**Total of all quantified cannabinoids:** **24.280** **242.798**

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Trans-Caryophyllene	0.0001	0.01	0.773
(R)-(+)-Limonene	0.0001	0.01	0.535
alpha-Humulene	0.0001	0.01	0.157
alpha-Pinene	0.0001	0.01	0.105
Ocimene (mixture of	0.0001	0.01	0.1
alpha-Cedrene	0.0001	0.01	0.093
beta-Pinene	0.0001	0.01	0.091
Linalool	0.0001	0.01	0.072
Terpineol (mix of isomers)	0.0001	0.01	0.059
beta-Myrcene	0.0001	0.01	0.042

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

<b>Terpene Analysis</b>	LOD (%)	LOQ (%)	wt%
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.037
Valencene	0.0001	0.01	0.018
Phytol	0.0001	0.06	BLQ
Farnesene-2	0.0001	0.01	0.017
alpha-Bisabolol	0.0001	0.01	0.012
Caryophyllene oxide	0.0001	0.01	0.011
cis-Nerolidol	0.0001	0.01	BLQ
Terpinolene	0.0001	0.01	BLQ
Fenchone (mix of isomers)	0.0001	0.01	BLQ
Citronellol	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
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
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
gamma-Terpinene	0.0001	0.01	ND
p-Isopropyltoluene (p-	0.0001	0.01	ND
Eucalyptol	0.0001	0.01	ND
trans-beta-Ocimene	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
alpha-Phellandrene	0.0001	0.01	ND
(1S)-3-Carene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND
Camphene	0.0001	0.01	ND
<b>Total of all quantified terpenes:</b>			<b>2.122</b>

**Moisture Analysis** 8.0%

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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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