

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

Strain: JMO #2  
Lot: SAM2006-042  
Matrix: Flower  
Sampled: 2020-06-24  
Received: 2020-06-25


Name: [REDACTED]

## Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
<b>Total THC [(THCA x 0.877) + D9-THC]</b>			<b>21.674</b>	<b>216.74</b>
Total CBD [(CBDA x 0.877) + CBD]			0.082	0.829
THCA-A	0.0090	0.03	24.447	244.468
CBGA	0.0041	0.03	1.07	10.7
D9-THC	0.0093	0.03	0.234	2.342
CBDA	0.0100	0.03	0.094	0.945
CBG	0.0094	0.03	0.077	0.772
CBN	0.0067	0.03	BLQ	BLQ
CBC	0.0060	0.03	ND	ND
D8-THC	0.0137	0.03	ND	ND
THCV	0.0093	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	0.581
Trans-Caryophyllene	0.0001	0.01	0.41
Farnesene-2	0.0001	0.01	0.325
Linalool	0.0001	0.01	0.218
alpha-Humulene	0.0001	0.01	0.13
beta-Pinene	0.0001	0.01	0.096
Terpineol (mix of isomers)	0.0001	0.01	0.092
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.082
alpha-Pinene	0.0001	0.01	0.067
beta-Myrcene	0.0001	0.01	0.066
alpha-Bisabolol	0.0001	0.01	0.057
Camphene	0.0001	0.01	0.033


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:   
Bernie Mangiola  
Laboratory Manager

<b>Terpene Analysis</b>	LOD (%)	LOQ (%)	wt%
Terpinolene	0.0001	0.01	0.028
Ocimene (mixture of	0.0001	0.01	0.027
Borneol (isomers)	0.0001	0.01	0.022
Fenchone (mix of isomers)	0.0001	0.01	0.021
Eucalyptol	0.0001	0.01	0.011
gamma-Terpinene	0.0001	0.01	BLQ
Caryophyllene oxide	0.0001	0.01	ND
(+)-Cedrol	0.0001	0.01	ND
cis-Nerolidol	0.0001	0.01	ND
trans-Nerolidol	0.0001	0.01	ND
Guaiol	0.0001	0.01	ND
Valencene	0.0001	0.01	ND
Pulegone	0.0001	0.01	ND
Geraniol acetate	0.0001	0.01	ND
Farnesene-1	0.0001	0.01	ND
alpha-Cedrene	0.0001	0.01	ND
gamma-Terpineol	0.0001	0.01	ND
Nerol	0.0001	0.01	ND
Geraniol	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
Sabinene Hydrate	0.0001	0.01	ND
(1S)-3-Carene	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
trans-beta-Ocimene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND
alpha-Phellandrene	0.0001	0.01	ND
<b>Total of all quantified terpenes:</b>			<b>2.266</b>

**Moisture Analysis** 10.2386%

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## Details of Testing

### **Cannabinoid Analysis**

Analysis of 11 cannabinoids by HPLC. LOQ is 0.3% for resins and isolates.  
HIGH NORTH Laboratories Method: LAB-MTD-020

### **Terpene Analysis**

Profiling for 41 terpenes by GC-MS/MS  
HIGH NORTH Laboratories Method: LAB-MTD-018

### **Moisture Analysis**

Loss on drying  
HIGH NORTH Laboratories Method: LAB-MTD-017

### **Microbial Analysis**

Molecular detection and quantitation by qPCR  
HIGH NORTH Laboratories Method: MIC-MTD-001

### **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-019

### **Residual Solvents Analysis**

Determination of 24 Residual Solvents by GC-MS/MS  
HIGH NORTH Laboratories Method: LAB-MTD-005

### **Pesticide Analysis**

Determination of 96 Pesticide Residues by LC-MS/MS and GC-MS/MS  
HIGH NORTH Laboratories Method: LAB-MTD-010

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