


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

Strain: T-M.A.C #5  
Lot: SAM2006-029  
Matrix: Flower  
Sampled: 2020-06-22  
Received: 2020-06-23

Name: 

## Certificate of Analysis

<b>Cannabinoid Analysis</b>	LOD (%)	LOQ (%)	wt%	mg/g
<b>Total THC [(THCA x 0.877) + D9-THC]</b>			<b>18.355</b>	<b>183.558</b>
Total CBD [(CBDA x 0.877) + CBD]			0.054	0.541
THCA-A	0.0090	0.03	20.59	205.903
CBGA	0.0041	0.03	1.223	12.232
D9-THC	0.0093	0.03	0.298	2.981
CBG	0.0094	0.03	0.11	1.095
CBDA	0.0100	0.03	0.062	0.617
THCV	0.0093	0.03	BLQ	BLQ
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
CBDV	0.0090	0.03	ND	ND

<b>Terpene Analysis</b>	LOD (%)	LOQ (%)	wt%
beta-Myrcene	0.0001	0.01	0.321
alpha-Pinene	0.0001	0.01	0.184
beta-Pinene	0.0001	0.01	0.108
(R)-(+)-Limonene	0.0001	0.01	0.102
Farnesene-2	0.0001	0.01	0.098
Linalool	0.0001	0.01	0.057
Guaiol	0.0001	0.01	0.053
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.042
alpha-Bisabolol	0.0001	0.01	0.04
Trans-Caryophyllene	0.0001	0.01	0.038
Ocimene (mixture of	0.0001	0.01	0.038
trans-Nerolidol	0.0001	0.01	0.028

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%
Terpineol (mix of isomers)	0.0001	0.01	0.027
Camphene	0.0001	0.01	0.024
Fenchone (mix of isomers)	0.0001	0.01	0.02
Borneol (isomers)	0.0001	0.01	0.016
alpha-Humulene	0.0001	0.01	0.014
Caryophyllene oxide	0.0001	0.01	0.011
(+)-Cedrol	0.0001	0.01	ND
cis-Nerolidol	0.0001	0.01	ND
Valencene	0.0001	0.01	ND
alpha-Cedrene	0.0001	0.01	ND
Geraniol acetate	0.0001	0.01	ND
Farnesene-1	0.0001	0.01	ND
Geraniol	0.0001	0.01	ND
Pulegone	0.0001	0.01	ND
gamma-Terpineol	0.0001	0.01	ND
Nerol	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
Isoborneol	0.0001	0.01	ND
Sabinene Hydrate	0.0001	0.01	ND
gamma-Terpinene	0.0001	0.01	ND
Terpinolene	0.0001	0.01	ND
Eucalyptol	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
trans-beta-Ocimene	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

**Total of all quantified terpenes:** **1.221**

**Moisture Analysis** 9.67424%

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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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