

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

Name: [REDACTED]


Strain: Lemon Cream Cake
Lot: SAM2012-175
Matrix: Flower
Sampled: 2020-12-18
Received: 2020-12-21

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			20.172	201.716
Total CBD [(CBDA x 0.877) + CBD]			0.077	0.767
THCA-A	0.0090	0.03	22.033	220.328
CBGA	0.0041	0.03	1.384	13.837
D9-THC	0.0093	0.03	0.849	8.488
CBG	0.0094	0.03	0.188	1.884
CBDA	0.0100	0.03	0.088	0.875
CBC	0.0060	0.03	0.065	0.654
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

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Terpinolene	0.0001	0.01	0.814
beta-Myrcene	0.0001	0.01	0.473
Ocimene (mixture of (R)-(+)-Limonene	0.0001	0.01	0.357
Trans-Caryophyllene	0.0001	0.01	0.268
Farnesene-2	0.0001	0.01	0.171
beta-Pinene	0.0001	0.01	0.139
Terpineol (mix of isomers)	0.0001	0.01	0.136
alpha-Pinene	0.0001	0.01	0.097
alpha-Bisabolol	0.0001	0.01	0.092
alpha-Humulene	0.0001	0.01	0.081
Linalool	0.0001	0.01	0.079


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

Terpene Analysis	LOD (%)	LOQ (%)	wt%
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.066
alpha-Phellandrene	0.0001	0.01	0.054
alpha-Terpinene	0.0001	0.01	0.043
(1S)-3-Carene	0.0001	0.01	0.043
Phytol	0.0001	0.06	BLQ
gamma-Terpinene	0.0001	0.01	0.035
Sabinene	0.0001	0.01	0.031
Camphene	0.0001	0.01	0.015
(+)-Cedrol	0.0001	0.01	ND
Guaiol	0.0001	0.01	ND
Caryophyllene oxide	0.0001	0.01	ND
cis-Nerolidol	0.0001	0.01	ND
trans-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
Borneol (isomers)	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
Fenchone (mix of isomers)	0.0001	0.01	ND
Sabinene Hydrate	0.0001	0.01	ND
Eucalyptol	0.0001	0.01	ND
trans-beta-Ocimene	0.0001	0.01	ND
Total of all quantified terpenes:			3.338

Moisture Analysis 12.03%

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Details of Testing

Cannabinoid Analysis

Analysis of 11 cannabinoids by HPLC & UHPLC
LOQ is 0.3% for resins/distillates/isolates, 0.03% for flower/oil samples
HIGH NORTH Laboratories Method: LAB-MTD-020 & LAB-MTD-023

Terpene Analysis

Profiling for 42 terpenes by GC-MS/MS
HIGH NORTH Laboratories Method: LAB-MTD-018

Moisture Analysis

Water Activity & Moisture Content
HIGH NORTH Laboratories Method: LAB-MTD-031

Microbial Analysis, Powdery Mildew & Gender Determination

Molecular detection and quantitation by qPCR
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
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-027

Residual Solvents Analysis

Determination of 24 Residual Solvents in Cannabis Oil and Tablets by GC-MS/MS
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
HIGH NORTH Laboratories Method: LAB-MTD-010

Foreign Matter Analysis

Visual/Magnified Detection of Foreign Matter
HIGH NORTH Laboratories Method: LAB-MTD-022

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