

Client: Mother Labs

Strain: Ice Cream Cake

Lot: SAM2006-033

Matrix: Flower

Sampled: 2020-06-22

Received: 2020-06-23

## Certificate of Analysis

<b>Cannabinoid Analysis</b>	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			21.926	219.267
Total CBD [(CBDA x 0.877) + CBD]			0.095	0.945
THCA-A	0.0090	0.03	24.501	245.013
CBGA	0.0041	0.03	0.74	7.398
D9-THC	0.0093	0.03	0.439	4.391
CBDA	0.0100	0.03	0.108	1.078
CBG	0.0094	0.03	0.093	0.925
CBN	0.0067	0.03	0.032	0.318
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

<b>Terpene Analysis</b>	LOD (%)	LOQ (%)	wt%
(R)-(+)-Limonene	0.0001	0.01	0.938
Trans-Caryophyllene	0.0001	0.01	0.368
Farnesene-2	0.0001	0.01	0.297
Linalool	0.0001	0.01	0.289
alpha-Pinene	0.0001	0.01	0.163
beta-Pinene	0.0001	0.01	0.157
Terpineol (mix of isomers)	0.0001	0.01	0.144
beta-Myrcene	0.0001	0.01	0.126
(R)-Endo-(+)-Fenchyl	0.0001	0.01	0.125
Ocimene (mixture of	0.0001	0.01	0.09
alpha-Humulene	0.0001	0.01	0.082
Camphene	0.0001	0.01	0.046

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%
trans-Nerolidol	0.0001	0.01	0.035
Borneol (isomers)	0.0001	0.01	0.024
Fenchone (mix of isomers)	0.0001	0.01	0.024
alpha-Bisabolol	0.0001	0.01	0.023
Terpinolene	0.0001	0.01	0.02
Caryophyllene oxide	0.0001	0.01	0.014
(+)-Cedrol	0.0001	0.01	ND
Guaiol	0.0001	0.01	ND
Valencene	0.0001	0.01	ND
cis-Nerolidol	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
Pulegone	0.0001	0.01	ND
Nerol	0.0001	0.01	ND
Geraniol	0.0001	0.01	ND
gamma-Terpineol	0.0001	0.01	ND
Hexahydrothymol	0.0001	0.01	ND
Isoborneol	0.0001	0.01	ND
Camphor (mix of isomers)	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
Eucalyptol	0.0001	0.01	ND
trans-beta-Ocimene	0.0001	0.01	ND
(1S)-3-Carene	0.0001	0.01	ND
alpha-Terpinene	0.0001	0.01	ND
alpha-Phellandrene	0.0001	0.01	ND
Sabinene	0.0001	0.01	ND
<b>Total of all quantified terpenes:</b>			<b>2.965</b>

**Moisture Analysis**      10.5461%

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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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