

HIGH NORTH ID:  
00106254  
Date: 2021-11-18  
Certificate: 1637266011



High North Inc.  
241 Hanlan Rd, Unit 7  
Woodbridge, ON, L4L 3R7  
1-416-864-6119  
LIC-P4PNJMAC20-2019

Client: Grow Cup  
241 Hanlan Rd, Unit 7&8,  
Woodbridge, ON, L4L 3R7  
Name: Grow Cup  
416-864-6119  
rick+growcup@highnorth.com  
Strain: Pink Lemonade  
Lot: Tony Scott  
Matrix: Flower  
Sub-matrix: Dried Flower  
Sampled: 2021-11-12  
Received: 2021-11-12

## Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			21.525	215.253
Total CBD [(CBDA x 0.877) + CBD]			0.069	0.688
THCA-A	0.0090	0.03	22.052	220.519
D9-THC	0.0093	0.03	2.186	21.858
CBGA	0.0041	0.03	0.622	6.218
CBG	0.0094	0.03	0.111	1.11
CBDA	0.0100	0.03	0.078	0.784
D8-THC	0.0137	0.03	ND	ND
CBC	0.0060	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
<b>Total of all quantified cannabinoids:</b>			25.049	250.489

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Terpinolene	0.0003	0.005	0.775
Trans-Caryophyllene	0.0002	0.005	0.455
Farnesene*	0.0009	0.005	0.334
Ocimene*	0.0004	0.005	0.303
Alpha-Phellandrene	0.0002	0.005	0.169
Beta-Myrcene	0.0003	0.005	0.155
Alpha-Humulene	0.0010	0.005	0.146
(R)-(+)-Limonene	0.0001	0.005	0.139
Linalool	0.0003	0.005	0.119
Terpineol*	0.0001	0.005	0.082
alpha-Bisabolol	0.0003	0.005	0.062

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, \* = Mixture of Isomers

Authorized by: *Amrita Naidu*

Amrita Naidu  
QA Specialist

<b>Terpene Analysis</b>	<b>LOD (%)</b>	<b>LOQ (%)</b>	<b>wt%</b>
Beta-Pinene	0.0002	0.005	0.051
Alpha-Pinene	0.0003	0.005	0.039
(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.035
Alpha-Terpinene	0.0003	0.005	0.035
(1S)-3-Carene	0.0007	0.005	0.028
trans-Nerolidol	0.0004	0.005	0.023
Gamma-Terpinene	0.0003	0.005	0.017
Caryophyllene oxide	0.0008	0.005	0.011
Geraniol	0.0007	0.005	0.008
Sabinene Hydrate	0.0001	0.005	0.007
Eucalyptol	0.0007	0.005	0.007
Sabinene	0.0013	0.005	0.007
Citronellol	0.0003	0.005	0.006
Camphene	0.0002	0.005	BLQ
Fenchone*	0.0003	0.005	BLQ
p-Cymene	0.0003	0.005	BLQ
Phytol*	0.0013	0.010	ND
(+)-Cedrol	0.0010	0.005	ND
Guaiol	0.0003	0.005	ND
Valencene	0.0002	0.005	ND
cis-Nerolidol	0.0003	0.005	ND
Eugenol	0.0004	0.010	ND
Alpha-Cedrene	0.0002	0.005	ND
Geranyl acetate	0.0002	0.005	ND
Pulegone	0.0002	0.005	ND
Nerol	0.0002	0.005	ND
Camphor + Borneol*	0.0003	0.010	ND
Hexahydrothymol	0.0005	0.005	ND
Isoborneol	0.0002	0.005	ND
Isopulegol	0.0004	0.005	ND
<b>Total of all quantified terpenes:</b>			<b>3.013</b>

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## Details of Testing

### **Cannabinoid Analysis**

Analysis of 11 Cannabinoids by HPLC & UHPLC

Method LAB-MTD-020: Flower (LOQ 0.06%), Oil (LOQ 0.03%), Extracts (LOQ 0.6%)

Method LAB-MTD-021: Isolates (LOQ 0.06%)

Method LAB-MTD-023: Tablets & Granules (LOQ 0.025%)

Method LAB-MTD-030: Topicals (LOQ 0.005%)

### **Terpene Analysis**

Profile of 42 terpenes by GC/MS

Method LAB-MTD-035: Cannabis Flower, Oil

### **Pesticide Analysis**

Determination of 96 Pesticide Residues by LC/MS/MS and GC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

### **Mycotoxin Analysis**

Determination of Aflatoxins B1, B2, G1, G2 and Ochratoxin-A by LC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Method LAB-MTD-029: Tablets

Method LAB-MTD-037: Topicals

### **Heavy Metal Analysis**

Determination of Heavy Metal contamination (Arsenic, Cadmium, Lead & Mercury) by ICP/MS

Method LAB-MTD-027: Cannabis Flower, Oil, Topicals, Tablets

### **Residual Solvents Analysis**

Determination of 24 Residual Solvents by GC/MS

Method LAB-MTD-036: Cannabis Oil

Method LAB-MTD-028: Tablets

### **Determination of Butane and Propane Residual Solvents in Cannabis Oil**

Method LAB-MTD-034 (GC/MS): Cannabis Oil

### **Microbial Analysis, Powdery Mildew & Gender Determination**

Molecular detection and quantitation by PCR & qPCR

Cannabis Flower, Oil, Cannabis-Infused Products

Method MIC-MTD-001 (TAMC, TYMC, BTGN, E.coli, Salmonella, Staph/Pseudomonas)

Method MIC-MTD-005: (Powdery Mildew & Gender Determination)

### **Moisture Analysis**

Water Activity & Moisture Content (Loss on Drying)

Method LAB-MTD-017 (Loss on Drying; Dry flower only)

Method LAB-MTD-031 (Water activity,  $a_w$ )

### **Foreign Matter Analysis**

Visual/Magnified Inspection for Foreign Matter

Method LAB-MTD-022

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