

CERTIFICATE OF ANALYSIS

Client information

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COA information

COA number **220622_22805_PAR6282**
COA Date **22-Jun-2022**
Analysis Request ID **PAR6282**

Sample information

Sample Name **Sun County Kush 3**
Sample ID **NCHR-22-001**
Laboratory ID **PAT23327**
Method Ref. **5991-9285EN**

Sample Receiving Date **16-Jun-2022**
Receiving Temperature **22°C**
Analysis Date **22-Jun-2022**

Cannabinoids Profile

Compounds	Results (%w/w)	Results (mg/g)	LOQ(%)
CBC	0.017	0.170	0.010
CBD	<0.010	<0.100	0.010
CBDA	0.048	0.480	0.010
CBDV	<0.010	<0.100	0.010
CBG	0.083	0.830	0.010
CBGA	0.487	4.870	0.010
CBN	0.015	0.150	0.010
D8-THC	<0.010	<0.100	0.010
D9-THC	1.281	12.810	0.010
THCA-A	26.543	265.430	0.010
THCV	0.008	0.080	0.010
Total THC	24.559	245.592	
Total CBD	0.042	0.421	

24.559%
Total THC

0.042%
Total CBD

Total THC = THC + (THCA*0.877), Total CBD = CBD + (CBDA*0.877)
Total THC/CBD is calculated using the formulas to take into account the loss of carboxyl group during decarboxylation step.

Authorized by: Laboratory Manager

Signature: 

Details of testing

1. LOQ- Limit of quantification
2. % w/w: percent (weight of analyte/ weight of product)
3. Results only apply to the items tested and to the sample(s) as received.
4. This report may not be distributed or reproduced except in full



***** This is end of the Certificate of Analysis *****



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HIGH NORTH ID:
00198952
Date: 2022-06-27
Certificate: 1656352513



High North Inc.
241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6119
LIC-P4PNJMAC20-2022

Client: [REDACTED] Sun County Kush
[REDACTED] Lot: NCHR-22-001
[REDACTED] Matrix: Flower
Name: [REDACTED] Sub-matrix: Dried Flower
[REDACTED] Sampled: 2022-06-21
[REDACTED] Received: 2022-06-23

Certificate of Analysis

Terpene Analysis	LOD (%)	LOQ (%)	wt%
(R)-(+)-Limonene	0.0001	0.005	0.628
Trans-Caryophyllene	0.0002	0.005	0.612
Farnesene*	0.0009	0.005	0.54
Alpha-Humulene	0.0010	0.005	0.197
Guaiol	0.0003	0.005	0.132
alpha-Bisabolol	0.0003	0.005	0.118
Terpineol*	0.0001	0.005	0.089
Beta-Pinene	0.0002	0.005	0.079
(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.076
Alpha-Pinene	0.0003	0.005	0.056
Beta-Myrcene	0.0003	0.005	0.025
trans-Nerolidol	0.0004	0.005	0.023
Caryophyllene oxide	0.0008	0.005	0.021
Camphene	0.0002	0.005	0.016
Citronellol	0.0003	0.005	0.007
Terpinolene	0.0003	0.005	0.007
Geraniol	0.0007	0.005	0.005
Fenchone*	0.0003	0.005	BLQ
Phytol*	0.0013	0.010	ND
(+)-Cedrol	0.0010	0.005	ND

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:

Will Zhong, Quality Assurance Specialist

Terpene Analysis	LOD (%)	LOQ (%)	wt%
cis-Nerolidol	0.0003	0.005	ND
Valencene	0.0002	0.005	ND
Eugenol	0.0004	0.010	ND
Geranyl acetate	0.0002	0.005	ND
Alpha-Cedrene	0.0002	0.005	ND
Pulegone	0.0002	0.005	ND
Nerol	0.0002	0.005	ND
Isoborneol	0.0002	0.005	ND
Camphor + Borneol*	0.0003	0.010	ND
Isopulegol	0.0004	0.005	ND
Hexahydrothymol	0.0005	0.005	ND
Linalool	0.0003	0.005	ND
Sabinene Hydrate	0.0001	0.005	ND
Ocimene*	0.0004	0.005	ND
Gamma-Terpinene	0.0003	0.005	ND
p-Cymene	0.0003	0.005	ND
Eucalyptol	0.0007	0.005	ND
Alpha-Terpinene	0.0003	0.005	ND
(1S)-3-Carene	0.0007	0.005	ND
Alpha-Phellandrene	0.0002	0.005	ND
Sabinene	0.0013	0.005	ND
Total of all quantified terpenes:			2.631

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Authorized by:



Will Zhang, Quality Assurance Specialist

Details of Testing

Cannabinoid Analysis

Analysis of 11 Cannabinoids by HPLC & UHPLC

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

Method LAB-MTD-039: Determination of 5 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0002%) and Solid Edibles (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

Method LAB-MTD-040: Determination of EP Pesticide Residue in Cannabis Oil by GCMSMS

Method LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related Products by GCMSMS

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

Information is accurate unless otherwise stated. The results of this report are reflective only to material and product analyzed as received. This report shall not be reproduced, without written approval from High North Laboratories. Test Results are confidential unless explicitly waived otherwise.

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Authorized by:



WR Zhong, Quality Assurance Specialist

Details of Testing

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)

Method MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA

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

Total Ash Analysis

Method LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

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Authorized by:



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