

HIGH NORTH ID:
00071210
Date: 2021-08-04
Certificate: 1628099850



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

Client: Segra International Corp. Strain: DBDR-S - Double Dream 8
Unit 6, 30 Braid Street, Lot: 21DBDR-S01
New Westminster, BC, V3L 3P3 Matrix: Flower
Name: Kane Cusack Sub-matrix: Dried Flower
236-818-2942 Sampled: 2021-07-28
kane.cusack@segra-intl.com Received: 2021-07-29

Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			21.771	217.707
Total CBD [(CBDA x 0.877) + CBD]			0.075	0.754
THCA-A	0.0090	0.03	24.347	243.471
D9-THC	0.0093	0.03	0.418	4.183
CBGA	0.0041	0.03	0.338	3.376
CBDA	0.0100	0.03	0.086	0.86
CBC	0.0060	0.03	ND	ND
D8-THC	0.0137	0.03	ND	ND
THCV	0.0093	0.03	ND	ND
CBN	0.0067	0.03	ND	ND
CBG	0.0094	0.03	ND	ND
CBD	0.0069	0.03	ND	ND
CBDV	0.0090	0.03	ND	ND
Total of all quantified cannabinoids:			25.189	251.890

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Farnesene*	0.0009	0.005	1.405
Beta-Myrcene	0.0003	0.005	0.961
Trans-Caryophyllene	0.0002	0.005	0.802
Alpha-Pinene	0.0003	0.005	0.644
alpha-Bisabolol	0.0003	0.005	0.29
Alpha-Humulene	0.0010	0.005	0.284
Beta-Pinene	0.0002	0.005	0.235
(R)-(+)-Limonene	0.0001	0.005	0.218
Linalool	0.0003	0.005	0.07
Terpineol*	0.0001	0.005	0.036
(R)-Endo-(+)-Fenchyl	0.0003	0.005	0.025

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:

Ryan Lee
Quality Assurance

Terpene Analysis	LOD (%)	LOQ (%)	wt%
trans-Nerolidol	0.0004	0.005	0.023
Camphene	0.0002	0.005	0.013
Caryophyllene oxide	0.0008	0.005	0.009
Citronellol	0.0003	0.005	0.007
Phytol*	0.0013	0.010	BLQ
Terpinolene	0.0003	0.005	BLQ
Sabinene Hydrate	0.0001	0.005	0.005
Nerol	0.0002	0.005	BLQ
Gamma-Terpinene	0.0003	0.005	BLQ
Alpha-Terpinene	0.0003	0.005	BLQ
Fenchone*	0.0003	0.005	BLQ
(+)-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
Pulegone	0.0002	0.005	ND
Geranyl acetate	0.0002	0.005	ND
Geraniol	0.0007	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
Ocimene*	0.0004	0.005	ND
Eucalyptol	0.0007	0.005	ND
p-Cymene	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:			5.027

Moisture Analysis 14.58%

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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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