

HIGH NORTH ID:  
00581547  
Date: 2024-11-27  
Certificate: 1732739396



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

Client: Segra International

Product: Runtz x Permanent Marker  
Lot: 001  
Matrix: Flower  
Sub-matrix: Dried Flower  
Sampled: 2024-11-19  
Received: 2024-11-20

## Certificate of Analysis

Cannabinoid Analysis	LOD (%)	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]			26.7957	267.9573
Total CBD [(CBDA x 0.877) + CBD]			0.0968	0.9679
THCA-A	0.03	0.06	28.9167	289.1667
D9-THC	0.03	0.06	1.4358	14.3581
CBGA	0.03	0.06	0.9195	9.1948
CBCA	0.03	0.06	0.2224	2.2241
THCVA	0.03	0.06	0.1740	1.7399
CBDA	0.03	0.06	0.1104	1.1036
CBG	0.03	0.06	0.0890	0.8896
CBC	0.03	0.06	ND	ND
D8-THC	0.03	0.06	ND	ND
CBCVA	0.03	0.06	ND	ND
CBN	0.03	0.06	ND	ND
CBCV	0.03	0.06	ND	ND
THCV	0.03	0.06	ND	ND
CBD	0.03	0.06	ND	ND
CBDV	0.03	0.06	ND	ND
CBDVA	0.03	0.06	ND	ND
<b>Total of all quantified cannabinoids:</b>			31.8678	318.6768
<b>Method:</b> LAB-MTD-020				

Moisture Analysis	Result
Loss on Drying (Moisture Analyzer)	12.15%

**Method:** LAB-MTD-017

Terpene Analysis	LOD (%)	LOQ (%)	wt%
Trans-Caryophyllene	0.0011	0.005	1.0430
(R)-(+)-Limonene	0.0006	0.005	0.8816
Beta-Myrcene	0.0004	0.005	0.5407

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:

  
Anil Kaur  
Quality Control and Release

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**Terpene Analysis**

	LOD (%)	LOQ (%)	wt%
Farnesene*	0.0029	0.010	0.5274
Linalool	0.0006	0.005	0.4309
Alpha-Humulene	0.0002	0.005	0.2579
Ocimene	0.0017	0.005	0.1796
Alpha-Pinene	0.0002	0.005	0.1291
Beta-Pinene	0.0004	0.005	0.1190
Alpha-Bisabolol	0.0011	0.005	0.0896
Alpha-Terpineol	0.0007	0.005	0.0872
(R)-Endo-(+)-Fenchyl Alcohol	0.0005	0.005	0.0780
trans-Nerolidol	0.0005	0.005	0.0448
Camphene	0.0009	0.005	0.0211
Terpinolene	0.0005	0.005	0.0132
Fenchone	0.0003	0.005	0.0117
Borneol	0.0005	0.005	0.0100
Caryophyllene oxide	0.0009	0.005	0.0096
Farnesol*	0.0032	0.010	BLQ
Sabinene Hydrate	0.0006	0.005	0.0060
Alpha-Terpinene	0.0004	0.005	BLQ
Gamma-Terpinene	0.0002	0.005	BLQ
Squalene	0.0015	0.005	ND
Phytol*	0.0030	0.010	ND
Nootkatone	0.0009	0.005	ND
Phytane	0.0006	0.005	ND
(+)-Cedrol	0.0004	0.005	ND
Guaiol	0.0013	0.005	ND
cis-Nerolidol	0.0012	0.005	ND
Valencene	0.0006	0.005	ND
Eugenol	0.0010	0.005	ND
Alpha-Cedrene	0.0004	0.005	ND
Geranyl acetate	0.0007	0.005	ND
Carvacrol	0.0005	0.005	ND
Thymol	0.0006	0.005	ND
d-Valerolactam (2-piperidone)	0.0015	0.005	ND
(-)-Piperitone	0.0012	0.005	ND
Isobornyl Acetate	0.0005	0.005	ND
Carvone	0.0006	0.005	ND
Pulegone	0.0006	0.005	ND
Verbenone	0.0006	0.005	ND
Citral*	0.0015	0.005	ND
Geraniol	0.0005	0.005	ND
Safranal	0.0004	0.005	ND
Nerol	0.0007	0.005	ND
Citronellol	0.0008	0.005	ND
Octyl Acetate	0.0005	0.005	ND

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### Terpene Analysis

	LOD (%)	LOQ (%)	wt%
Terpinen-4-ol	0.0017	0.005	ND
Camphor	0.0005	0.005	ND
Isoborneol	0.0005	0.005	ND
Menthol (Hexahydrothymol)	0.0013	0.005	ND
Menthone*	0.0015	0.005	ND
Isopulegol	0.0010	0.005	ND
Alpha-Thujone	0.0010	0.005	ND
Eucalyptol	0.0011	0.005	ND
Cymene*	0.0004	0.005	ND
Alpha-Phellandrene	0.0010	0.005	ND
(1S)-3-Carene	0.0009	0.005	ND
Sabinene	0.0003	0.005	ND

**Total of all quantified terpenes:** 4.480

**Method:** LAB-MTD-044

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