

HIGH NORTH ID:
00406845
Date: 2023-11-30
Certificate: 1701372870



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

Client: Rosebud Productions Inc.
#115 - 23000 FRASERWOOD
WAY,
RICHMOND, BC, V6V 3C7
Name: Madeleine Gwynne
17782291621
madeleine@herbaldispatch.com
Product: Squirt
Lot: 2023092002
Matrix: Oil
Sub-matrix: Live Resin
Sampled: 2023-11-15
Received: 2023-11-16

Certificate of Analysis

| Cannabinoid Analysis | LOD (%) | LOQ (%) | wt% | mg/g |
|--|---------|---------|---------|----------|
| Total THC [(THCA x 0.877) + D9-THC] | | | 60.8378 | 608.3771 |
| Total CBD [(CBDA x 0.877) + CBD] | | | 0.1801 | 1.8012 |
| THCA-A | 0.1 | 0.2 | 67.9083 | 679.0828 |
| CBGA | 0.1 | 0.2 | 2.9252 | 29.2522 |
| D9-THC | 0.1 | 0.2 | 1.2822 | 12.8215 |
| CBCA | 0.1 | 0.2 | 0.8355 | 8.3549 |
| CBG | 0.1 | 0.2 | 0.3131 | 3.1306 |
| CBDA | 0.1 | 0.2 | 0.2054 | 2.0538 |
| CBC | 0.1 | 0.2 | ND | ND |
| D8-THC | 0.1 | 0.2 | ND | ND |
| CBCVA | 0.1 | 0.2 | ND | ND |
| CBN | 0.1 | 0.2 | ND | ND |
| THCVA | 0.1 | 0.2 | ND | ND |
| CBCV | 0.1 | 0.2 | ND | ND |
| THCV | 0.1 | 0.2 | ND | ND |
| CBD | 0.1 | 0.2 | ND | ND |
| CBDV | 0.1 | 0.2 | ND | ND |
| CBDVA | 0.1 | 0.2 | ND | ND |
| Total of all quantified cannabinoids: | | | 73.4697 | 734.6958 |

| Terpene Analysis | LOD (%) | LOQ (%) | wt% |
|-------------------------|---------|---------|--------|
| Trans-Caryophyllene | 0.0008 | 0.025 | 2.7765 |
| Farnesene* | 0.0055 | 0.050 | 2.3571 |
| (R)-(+)-Limonene | 0.0007 | 0.025 | 1.7996 |
| Beta-Myrcene | 0.0005 | 0.025 | 1.4902 |
| Alpha-Humulene | 0.0005 | 0.025 | 1.2049 |

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:

Kintesh Sutaria
Kintesh Sutaria
QA Specialist

| Terpene Analysis | LOD (%) | LOQ (%) | wt% |
|-------------------------------|---------|---------|--------|
| Linalool | 0.0007 | 0.025 | 0.5074 |
| Guaiol | 0.0005 | 0.025 | 0.4761 |
| Terpinolene | 0.0008 | 0.025 | 0.4194 |
| Alpha-Bisabolol | 0.0008 | 0.025 | 0.3156 |
| Beta-Pinene | 0.0008 | 0.025 | 0.2240 |
| Alpha-Terpineol | 0.0008 | 0.025 | 0.1780 |
| Alpha-Pinene | 0.0007 | 0.025 | 0.1772 |
| (R)-Endo-(+)-Fenchyl Alcohol | 0.0010 | 0.025 | 0.1391 |
| Caryophyllene oxide | 0.0007 | 0.025 | 0.1372 |
| Ocimene | 0.0005 | 0.025 | 0.0592 |
| trans-Nerolidol | 0.0006 | 0.025 | 0.0444 |
| Camphene | 0.0017 | 0.025 | 0.0339 |
| Alpha-Phellandrene | 0.0010 | 0.025 | BLQ |
| Borneol | 0.0007 | 0.025 | BLQ |
| Alpha-Terpinene | 0.0004 | 0.025 | BLQ |
| (1S)-3-Carene | 0.0009 | 0.025 | BLQ |
| Fenchone | 0.0008 | 0.025 | BLQ |
| Gamma-Terpinene | 0.0007 | 0.025 | BLQ |
| Sabinene | 0.0009 | 0.025 | BLQ |
| Cymene* | 0.0006 | 0.025 | BLQ |
| Squalene | 0.0029 | 0.050 | ND |
| Phytol* | 0.0018 | 0.050 | ND |
| Nootkatone | 0.0018 | 0.025 | ND |
| Farnesol* | 0.0016 | 0.050 | ND |
| Phytane | 0.0009 | 0.025 | ND |
| (+)-Cedrol | 0.0006 | 0.025 | ND |
| cis-Nerolidol | 0.0015 | 0.025 | ND |
| Valencene | 0.0005 | 0.025 | ND |
| Eugenol | 0.0023 | 0.025 | ND |
| Alpha-Cedrene | 0.0006 | 0.025 | ND |
| Geranyl acetate | 0.0009 | 0.025 | ND |
| Carvacrol | 0.0009 | 0.025 | ND |
| Thymol | 0.0012 | 0.025 | ND |
| d-Valerolactam (2-piperidone) | 0.0012 | 0.025 | ND |
| (-)-Piperitone | 0.0017 | 0.025 | ND |
| Isobornyl Acetate | 0.0018 | 0.025 | ND |
| Carvone | 0.0007 | 0.025 | ND |
| Pulegone | 0.0007 | 0.025 | ND |
| Verbenone | 0.0007 | 0.025 | ND |
| Citral* | 0.0021 | 0.025 | ND |
| Geraniol | 0.0007 | 0.025 | ND |
| Safranal | 0.0004 | 0.025 | ND |
| Nerol | 0.0010 | 0.025 | ND |

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| Terpene Analysis | LOD (%) | LOQ (%) | wt% |
|--|---------|---------|--------|
| Citronellol | 0.0008 | 0.025 | ND |
| Octyl Acetate | 0.0009 | 0.025 | ND |
| Terpinen-4-ol | 0.0010 | 0.025 | ND |
| Camphor | 0.0008 | 0.025 | ND |
| Isoborneol | 0.0006 | 0.025 | ND |
| Menthol (Hexahydrothymol) | 0.0010 | 0.025 | ND |
| Menthone* | 0.0007 | 0.025 | ND |
| Isopulegol | 0.0007 | 0.025 | ND |
| Alpha-Thujone | 0.0005 | 0.025 | ND |
| Sabinene Hydrate | 0.0010 | 0.025 | ND |
| Eucalyptol | 0.0006 | 0.025 | ND |
| Total of all quantified terpenes: | | | 12.340 |

| Microbial Analysis | LOD (CFU/g) | RL (CFU/g) | Result (CFU/g) | Status |
|-----------------------------|-------------|------------|----------------|--------|
| Total Aerobic Count | 10 | 200 | < 10 | PASS |
| Total Yeast and Mold Count | 10 | 20 | < 10 | PASS |
| S.aureus/P.aeruginosa | | | Absent in 1g | PASS |
| Bile-Tolerant Gram-Negative | | | Absent in 1g | PASS |

| Heavy Metals Analysis | LOD (ppm) | LOQ (ppm) | RL (ppm) | Result (ppm) | Status |
|------------------------------|-----------|-----------|----------|--------------|--------|
| Arsenic | 0.067 | 0.2 | 0.2 | ND | PASS |
| Cadmium | 0.008 | 0.05 | 0.3 | ND | PASS |
| Lead | 0.010 | 0.50 | 0.5 | ND | PASS |
| Mercury | 0.003 | 0.05 | 0.1 | ND | PASS |

Comments

This COA cancels and supersedes certificate ID 1700838388 dated 2023-11-24.

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Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 16 Cannabinoids in Cannabis Flowers, Extracts, Topicals, Tablets and Isolates by HPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles by HPLC

LAB-MTD-051: Assay of Cannabinoids in Cannabis Flower as per DAB by HPLC

LAB-MTD-052: Identification of CBD and THCA as per DAB by Thin-Layer Chromatography

Terpene Analysis

LAB-MTD-044: Determination of Terpene Content in Cannabis Dried Flower, Fresh Flower and Extracts by GC-MS

Pesticide Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-040: Determination of EP 2.8.13 Pesticide Residues in Cannabis Extracts by GC-MS/MS

LAB-MTD-041: Determination of EP 2.8.13/USP 561 Pesticide Residues in Cannabis Flower by GC-MS/MS and LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-055: Determination of Israel Pesticide Residues in Dried/Fresh Cannabis by LC-MS/MS and GC-MS/MS

Mycotoxin Analysis

LAB-MTD-010: Determination of Health Canada Pesticide Residues and Toxins in Dried Cannabis Flower by LC-MS/MS and GC-MS/MS

LAB-MTD-029: Determination of Toxins in Tablet Samples by LC-MS/MS

LAB-MTD-037: Determination of Mycotoxins in Topical/Cream Samples by LC-MS/MS

LAB-MTD-046: Determination of Health Canada Pesticides and Toxins in Cannabis Extracts by LC-MS/MS

LAB-MTD-048: Determination of Health Canada Pesticide Residues and Toxins in Fresh Cannabis Flower by LC-MS/MS and GC-MS/MS

Flavonoid Analysis

LAB-MTD-045: Determination of Flavonoids in Cannabis Dried Flower, Fresh Flower, and Extracts by LC-MS/MS

Peroxide Value, p-Anisidine and Acidity (FFA) Analysis

LAB-MTD-049: Determination of Peroxide Value, p-Anisidine, and Acidity (FFA)

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Details of Testing

Microbial Analysis

MIC-MTD-001: Microbial Analysis of Cannabis Flower and Oil by qPCR
MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA
MIC-MTD-007: Microbial Analysis of Cannabis by Culture Techniques
MIC-MTD-009: Cannabis Gender Determination by qPCR
MIC-MTD-010: Identification A and Identification B of Cannabis by DAB Monograph
MIC-MTD-011: Analysis of Shigella Species in Cannabis and Cannabis Infused Products
MIC-MTD-008: Analysis of Listeria Monocytogenes in Cannabis and Cannabis Infused Products
MIC-MTD-012: Microbial Analysis of Cannabis and Cannabis Infused Products by TEMPO

Moisture Analysis

LAB-MTD-017: Determination of Moisture Content in Cannabis Flower
LAB-MTD-031: Water Activity Meter Setup and Operation
LAB-MTD-053: Determination of Moisture Content by Loss on Drying Technique using Vacuum Oven
LAB-MTD-056: Determination of Moisture Content by Karl Fischer Titration

Sample Appearance and Foreign Matter

LAB-MTD-022: Sample Appearance and Detection of Foreign Matter Content in Cannabis Samples

Total Ash Analysis

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

Residual Solvents Analysis

LAB-MTD-036: Determination of Residual Solvents in Cannabis Oil by GC-MS
LAB-MTD-028: Determination of Residual Solvents in Tablet Samples by GC-MS
LAB-MTD-034: Determination of Propane and Butane in Cannabis Oil by GC-MS
LAB-MTD-038: Determination of Toluene in Cannabis Isolate by GC-MS
LAB-MTD-054: Determination of Acetic Acid in Flavour, Cannabis Vape Mix Oil and Cannabis Infused Flower by GC-MS

Heavy Metal Analysis

LAB-MTD-027: Determination of Heavy Metals in Cannabis Samples (Cream/Topicals, Tablets and Edibles) by ICP-MS
LAB-MTD-050: Multi-Element Analysis of Cannabis Dried Flower, Fresh Flower, Extracts, and Rolling Papers by ICP-MS

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