

HIGH NORTH ID:
00039192
Date: 2021-04-06
Serial #: 1617724232



241 Hanlan Rd, Unit 7
Woodbridge, ON, L4L 3R7
1-416-864-6119

| | | | |
|---------|------------------------------|-------------|-----------------------------|
| Client: | Segra International Corp. | Strain: | PH08-P - FL 30-Phytonyx-#30 |
| | Unit 6, 30 Braid Street, | Lot: | 20PH08-P01 |
| | New Westminster, BC, V3L 3P3 | Matrix: | Flower |
| Name: | Kane Cusack | Sub-matrix: | Dried Flower |
| | 236-818-2942 | Sampled: | 2021-03-22 |
| | kane.cusack@segra-intl.com | Received: | 2021-03-30 |

Certificate of Analysis

| Cannabinoid Analysis | LOD (%) | LOQ (%) | wt% | mg/g |
|--|---------|---------|--------|---------|
| Total THC [(THCA x 0.877) + D9-THC] | | | 0.831 | 8.309 |
| Total CBD [(CBDA x 0.877) + CBD] | | | 18.32 | 183.2 |
| CBDA | 0.0100 | 0.03 | 20.746 | 207.459 |
| THCA-A | 0.0090 | 0.03 | 0.947 | 9.474 |
| CBGA | 0.0041 | 0.03 | 0.861 | 8.612 |
| CBD | 0.0069 | 0.03 | 0.126 | 1.258 |
| CBG | 0.0094 | 0.03 | 0.09 | 0.901 |
| D9-THC | 0.0093 | 0.03 | BLQ | BLQ |
| D8-THC | 0.0137 | 0.03 | ND | ND |
| CBC | 0.0060 | 0.03 | ND | ND |
| CBN | 0.0067 | 0.03 | ND | ND |
| THCV | 0.0093 | 0.03 | ND | ND |
| CBDV | 0.0090 | 0.03 | ND | ND |
| Total of all quantified cannabinoids: | | | 22.770 | 227.704 |

| Terpene Analysis | LOD (%) | LOQ (%) | wt% |
|----------------------------|---------|---------|-------|
| Ocimene (mixture of | 0.0001 | 0.01 | 0.702 |
| beta-Myrcene | 0.0001 | 0.01 | 0.435 |
| Trans-Caryophyllene | 0.0001 | 0.01 | 0.262 |
| (R)-(+)-Limonene | 0.0001 | 0.01 | 0.253 |
| Farnesene-2 | 0.0001 | 0.01 | 0.252 |
| alpha-Bisabolol | 0.0001 | 0.01 | 0.114 |
| Guaiol | 0.0001 | 0.01 | 0.061 |
| alpha-Humulene | 0.0001 | 0.01 | 0.056 |
| Linalool | 0.0001 | 0.01 | 0.039 |
| (R)-Endo-(+)-Fenchyl | 0.0001 | 0.01 | 0.037 |
| Terpineol (mix of isomers) | 0.0001 | 0.01 | 0.034 |

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

Authorized by:


Krishna Pandya
QA Associate

| Terpene Analysis | LOD (%) | LOQ (%) | wt% |
|--|---------|---------|-------|
| beta-Pinene | 0.0001 | 0.01 | 0.034 |
| alpha-Pinene | 0.0001 | 0.01 | 0.027 |
| Phytol | 0.0001 | 0.06 | BLQ |
| Caryophyllene oxide | 0.0001 | 0.01 | 0.012 |
| Valencene | 0.0001 | 0.01 | 0.011 |
| Terpinolene | 0.0001 | 0.01 | 0.011 |
| Camphene | 0.0001 | 0.01 | BLQ |
| trans-Nerolidol | 0.0001 | 0.01 | BLQ |
| Fenchone (mix of isomers) | 0.0001 | 0.01 | BLQ |
| (+)-Cedrol | 0.0001 | 0.01 | ND |
| cis-Nerolidol | 0.0001 | 0.01 | ND |
| Eugenol | 0.0001 | 0.01 | ND |
| Geraniol acetate | 0.0001 | 0.01 | ND |
| alpha-Cedrene | 0.0001 | 0.01 | ND |
| Geraniol | 0.0001 | 0.01 | ND |
| Pulegone | 0.0001 | 0.01 | ND |
| Citronellol | 0.0001 | 0.01 | ND |
| Nerol | 0.0001 | 0.01 | ND |
| gamma-Terpineol | 0.0001 | 0.01 | ND |
| Camphor (mix of isomers) | 0.0001 | 0.01 | ND |
| Hexahydrothymol | 0.0001 | 0.01 | ND |
| Isoborneol | 0.0001 | 0.01 | ND |
| Isopulegol | 0.0001 | 0.01 | ND |
| Sabinene Hydrate | 0.0001 | 0.01 | ND |
| gamma-Terpinene | 0.0001 | 0.01 | ND |
| trans-beta-Ocimene | 0.0001 | 0.01 | ND |
| p-Isopropyltoluene (p- | 0.0001 | 0.01 | ND |
| Eucalyptol | 0.0001 | 0.01 | ND |
| alpha-Terpinene | 0.0001 | 0.01 | ND |
| (1S)-3-Carene | 0.0001 | 0.01 | ND |
| alpha-Phellandrene | 0.0001 | 0.01 | ND |
| Sabinene | 0.0001 | 0.01 | ND |
| Total of all quantified terpenes: | | | 2.340 |

Moisture Analysis 7.82%

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

Authorized by:


Krishna Pandya
QA Associate

Details of Testing

Cannabinoid Analysis

Analysis of 11 Cannabinoids by HPLC & UHPLC

LOQ of 0.3% for Resins/Distillates/Isolates; 0.025% for Tablets; 0.03% for Flower/Oil Samples

HIGH NORTH Laboratories Methods: LAB-MTD-020, LAB-MTD-021, LAB-MTD-023 & LAB-MTD-030

Terpene Analysis

Profile of 42 Terpenes by GC-MS/MS

Cannabis Flower, Oil

HIGH NORTH Laboratories Method: LAB-MTD-018

Moisture Analysis

Water Activity & Moisture Content (Loss on Drying)

HIGH NORTH Laboratories Method: LAB-MTD-031 & LAB-MTD-017

Microbial Analysis, Powdery Mildew & Gender Determination

Molecular detection and quantitation by PCR & qPCR

Cannabis Flower, Cannabis-Infused Products

HIGH NORTH Laboratories Method: MIC-MTD-001 & MIC-MTD-005

Mycotoxin Analysis

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

Cannabis Flower, Oil, Tablets

HIGH NORTH Laboratories Method: LAB-MTD-010, LAB-MTD-029

Heavy Metal Analysis

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

Cannabis Flower, Oil, Topicals, Tablets

HIGH NORTH Laboratories Method: LAB-MTD-027

Residual Solvents Analysis

Determination of 25 Residual Solvents by GC-MS/MS

Cannabis Oil, Tablets

HIGH NORTH Laboratories Method: LAB-MTD-005 & LAB-MTD-028

Pesticide Analysis

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

Cannabis Flower, Oil

HIGH NORTH Laboratories Method: LAB-MTD-010

Determination of Butane and Propane Residual Solvents in Cannabis Oil

HIGH NORTH Laboratories Method: LAB-MTD-034

Foreign Matter Analysis

Visual/Magnified Inspection for Foreign Matter

HIGH NORTH Laboratories Method: LAB-MTD-022

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

Authorized by:


Krishna Pandya
QA Associate