HIGH NORTH ID: 00365766 Date: 2023-08-10 Certificate: 1691696419



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

| Client: | BLACK KETTLE FARMS 22051 56 AVE , | Product: Lot: | Donk DB-2 |
|---------|--|-----------------------|--------------|
| | LANGLEY, BC, V2Y 2M8 | Matrix: | Flow |
| Name: | 1199519 BC LTD | Sub-matrix: | Dried |
| | 778.918.0911 blackkettle000@gmail.com | Sampled: Received: | 2023 2023 |
| | | | |

key Butter 23-01 ver d Flower 3-08-01 3-08-04

Certificate of Analysis

| Cannabinoid Analysis | LOD (%) | LOQ (%) | wt% | mg/g |
|---|---------|----------|-------------------|--------------------|
| Total THC [(THCA x 0.877) + D9-THC] Total CBD [(CBDA x 0.877) + CBD] | | | 22.3630 0.0729 | 223.6293 0.7288 |
| THCA-A | 0.015 | 0.06 | 24.8824 | 248.8242 |
| CBGA | 0.015 | 0.06 | 0.7246 | 7.2459 |
| D9-THC | 0.015 | 0.06 | 0.5411 | 5.4105 |
| CBDA | 0.015 | 0.06 | 0.0831 | 0.8310 |
| CBG | 0.015 | 0.06 | 0.0783 | 0.7832 |
| CBC | 0.015 | 0.06 | ND | ND |
| D8-THC | 0.015 | 0.06 | ND | ND |
| CBN | 0.015 | 0.06 | ND | ND |
| THCV | 0.015 | 0.06 | ND | ND |
| CBD | 0.015 | 0.06 | ND | ND |
| CBDV | 0.015 | 0.06 | ND | ND |
| Total of all quantified cannabinoid | 26.3095 | 263.0948 | | |
| Terpene Analysis | LOD (%) | LOQ (%) | wt% | |
| | | | | |
| Trans-Caryophyllene | 0.0011 | 0.005 | 0.5109 | |
| (R)-(+)-Limonene | 0.0006 | 0.005 | 0.3318 | |
| Farnesene* | 0.0029 | 0.010 | 0.2553 | |
| Beta-Myrcene | 0.0004 | 0.005 | 0.1961 | |
| Alpha-Humulene | 0.0002 | 0.005 | 0.1404 | |
| Alpha-Terpineol | 0.0007 | 0.005 | 0.0852 | |
| | 0.0006 | 0.005 | 0.0767 | |
| (R)-Endo-(+)-Fenchyl Alcohol | 0.0005 | 0.005 | 0.0680 | |
| Beta-Pinene | 0.0004 | 0.005 | 0.0606 | |
| Alpha-Pinene | 0.0002 | 0.005 | 0.0539 | |
| Alpha-Bisabolol | 0.0011 | 0.005 | 0.0313 | |

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



| Terpene Analysis | LOD (%) | LOQ (%) | wt% |
|-------------------------------|---------|---------|--------|
| trans-Nerolidol | 0.0005 | 0.005 | 0.0228 |
| Camphene | 0.0009 | 0.005 | 0.0134 |
| Caryophyllene oxide | 0.0009 | 0.005 | 0.0130 |
| Borneol | 0.0005 | 0.005 | 0.0089 |
| Terpinolene | 0.0005 | 0.005 | BLQ |
| Fenchone | 0.0003 | 0.005 | BLQ |
| Squalene | 0.0015 | 0.005 | ND |
| Phytol* | 0.0030 | 0.010 | ND |
| Nootkatone | 0.0009 | 0.005 | ND |
| Farnesol* | 0.0032 | 0.010 | 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 |
| 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 |
| lsopulegol | 0.0010 | 0.005 | ND |
| Alpha-Thujone | 0.0010 | 0.005 | ND |
| Sabinene Hydrate | 0.0006 | 0.005 | ND |
| Gamma-Terpinene | 0.0002 | 0.005 | ND |
| Eucalyptol | 0.0011 | 0.005 | ND |
| Cymene* | 0.0004 | 0.005 | ND |
| | | | |

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| Terpene Analysis | LOD (%) | LOQ (%) | wt% | |
|-----------------------------------|---------|---------|-------|--|
| Ocimene | 0.0017 | 0.005 | ND | |
| Alpha-Terpinene | 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: | | | 1.868 | |
| Moisture Analysis 9.61% | | | | |

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Details of Testing

Cannabinoid Analysis

LAB-MTD-020: Determination of 11 Cannabinoids in Cannabis Flower (LOQ 0.06%), Fresh Flower (LOQ 0.015%), Oil (LOQ 0.03%) and Concentrates (LOQ 0.6%) by HPLC and UHPLC

LAB-MTD-021: Determination of Cannabinoids of Individually Isolated Sample by HPLC/UHPLC LAB-MTD-023: Determination of 11 Cannabinoids in Cannabis Tablets and Granules (LOQ 0.025%) by HPLC/UHPLC

LAB-MTD-030: Determination of 11 Cannabinoids in Cannabis Topicals (LOQ 0.005%) by HPLC/UHPLC

LAB-MTD-039: Determination of 11 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0005%) and Solid Edibles (LOQ 0.005%) 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 Pesticide Residues in Cannabis Oil and Related Products by GC-MS/MS

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

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

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Authorized by:



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

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

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

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

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

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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Authorized by:

