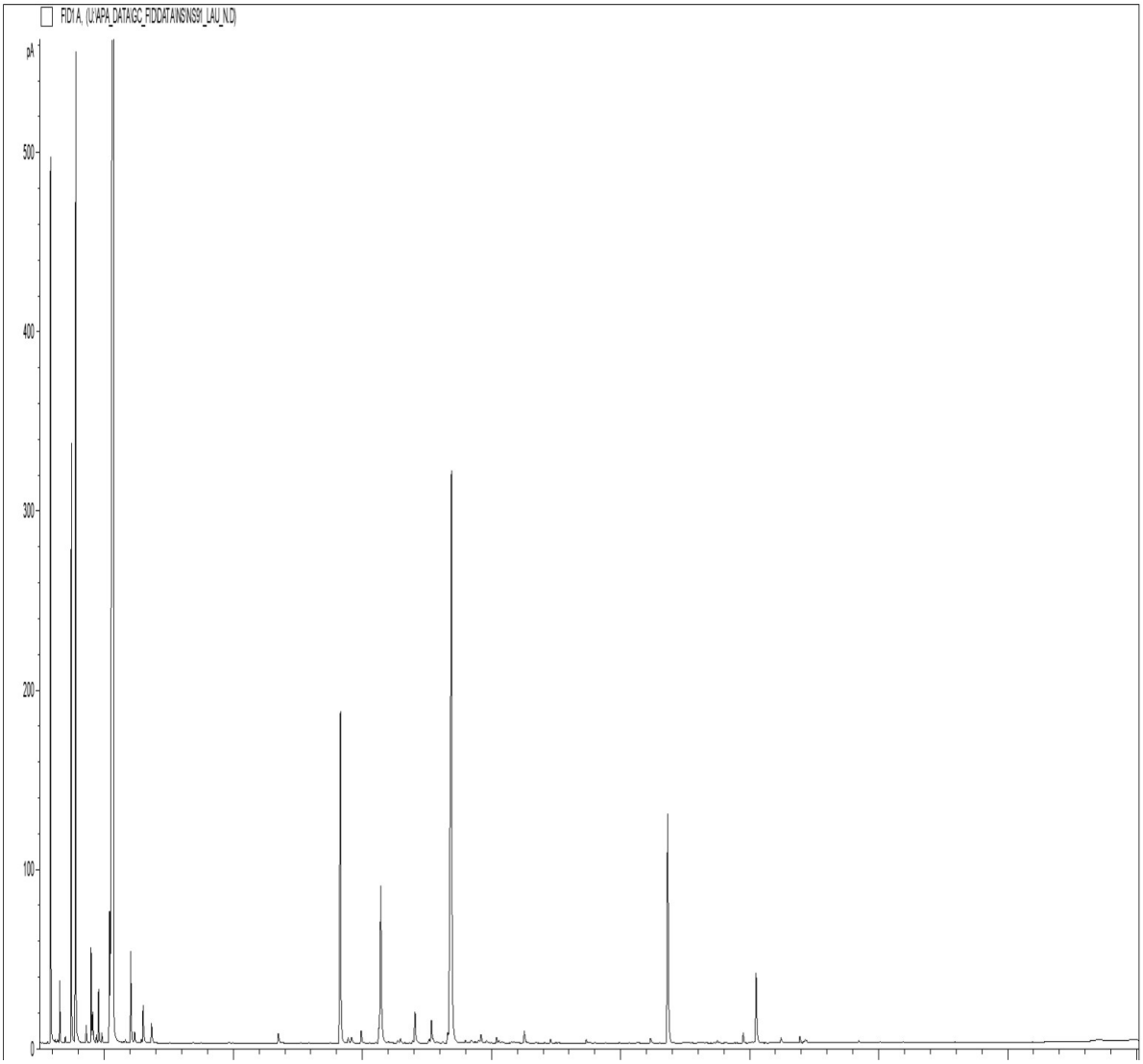
# MALIKA ESSENTIALS

## GC/MS ANALYSIS REPORT

| | |
|---|---|
| **Product Name** | Bay Leaf Essential Oil |
| **Botanical Name** | Laurus nobilis |
| **Analysis Date** | June 20, 2025 |

*Note: This GC/MS report is a representative analysis of this product. Due to volume turnover, it is not specific to an individual lot; specific lots may vary slightly, as is the case with natural products. The lot-specific quality document for each batch is its Certificate of Analysis.*

### Chromatogram




## Identified Compounds

| Peak | RT (min) | Compound name | % |
|---|---|---|---|
| 1 | 4.99 | ALIPHATIC ESTER | 0.03 |
| 2 | 5.62 | TRICYCLENE | 0.01 |
| 3 | 5.84 | alpha-PINENE | 5.47 |
| 4 | 5.90 | alpha-THUYENE | 0.56 |
| 5 | 6.19 | ETHYL 2-METHYLBUTYRATE | 0.04 |
| 6 | 6.40 | alpha-FENCHENE | 0.04 |
| 7 | 6.55 | CAMPHENE | 0.48 |
| 8 | 6.98 | BUTYL ISOBUTYRATE | 0.05 |
| 9 | 7.45 | beta-PINENE | 4.34 |
| 10 | 7.80 | SABINENE | 8.21 |
| 11 | 8.23 | THUYA-2,4-DIENE | 0.02 |
| 12 | 8.61 | delta3-CARENE | 0.19 |
| 13 | 8.98 | beta-MYRCENE | 0.83 |
| 14 | 9.11 | alpha-PHELLANDRENE | 0.37 |
| 15 | 9.41 | ISOBUTYL 2-METHYLBUTYRATE | 0.08 |
| 16 | 9.56 | alpha-TERPINENE | 0.53 |
| 17 | 9.82 | 1,8-CINEOLE, 2,3-DEHYDRO- | 0.10 |
| 18 | 10.41 | LIMONENE | 1.34 |

| | | | |
|---|---|---|---|
| 19 | 10.74 | 1,8-CINEOLE | 45.94 |
| 20 | 11.52 | TERPENIC COMPOUND | 0.02 |
| 21 | 11.64 | cis-beta-OCIMENE | 0.04 |
| 22 | 11.90 | TERPENIC COMPOUND | 0.01 |
| 23 | 12.06 | gamma-TERPINENE | 1.03 |
| 24 | 12.35 | trans-beta-OCIMENE | 0.15 |
| 25 | 12.88 | m-CYMENE | 0.04 |
| 26 | 13.01 | p-CYMENE | 0.52 |
| 27 | 13.66 | TERPINOLENE | 0.27 |
| 28 | 19.60 | 2-NONANONE | 0.03 |
| 29 | 23.48 | trans-THUYANOL | 0.18 |
| 30 | 23.82 | alpha-CUBEBENE | 0.02 |
| 31 | 27.50 | alpha-GURJUNENE | 0.01 |
| 32 | 28.30 | LINALOOL | 4.96 |
| 33 | 28.40 | cis-THUYANOL | 0.15 |
| 34 | 28.90 | LINALYL ACETATE | 0.11 |
| 35 | 29.16 | trans-p-MENTH-2-EN-1-OL | 0.12 |
| 36 | 29.91 | BORNYL ACETATE | 0.20 |
| 37 | 31.01 | alpha-GUAIENE | 0.02 |
| 38 | 31.30 | beta-ELEMENE | 0.18 |
| 39 | 31.35 | beta-CARYOPHYLLENE | 0.23 |
| 40 | 31.41 | TERPINENE-4-OL | 2.77 |
| 41 | 32.00 | 2-UNDECANONE | 0.04 |
| 42 | 32.10 | 6,9-GUAIADIENE | 0.02 |
| 43 | 32.29 | TERPENIC COMPOUND | 0.01 |
| 44 | 32.74 | 4-THUYEN-2-alpha-YL ACETATE | 0.04 |
| 45 | 32.94 | cis-p-MENTH-2-EN-1-OL | 0.09 |
| 46 | 33.89 | trans-PINOCARVEOL | 0.05 |
| 47 | 34.07 | delta-TERPENYL ACETATE | 0.53 |
| 48 | | SESQUITERPENE | |
| 49 | 35.16 | ESTRAGOL | 0.08 |
| 50 | 35.35 | delta-TERPINEOL | 0.34 |
| 51 | 35.40 | alpha-HUMULENE | 0.07 |
| 52 | 35.77 | cis-PIPERITOL | 0.05 |
| 53 | 36.24 | LAVANDULAL | 0.02 |
| 54 | 36.60 | BORNEOL | 0.17 |
| 55 | 36.89 | TERPENYL ACETATE | 9.34 |
| 56 | 36.95 | alpha-TERPINEOL | 2.37 |
| 57 | 37.99 | GERMACRENE D | 0.05 |
| 58 | 38.27 | SESQUITERPENE | 0.01 |
| 59 | 38.42 | beta-SELINENE | 0.08 |
| 60 | 38.72 | alpha-SELINENE | 0.02 |
| 61 | 38.99 | NERYL ACETATE | 0.06 |
| 62 | 39.19 | BICYCLOGERMACRENE | 0.15 |
| 63 | 39.62 | trans-PIPERITOL | 0.05 |
| 64 | 40.39 | delta-CADINENE | 0.09 |
| 65 | 40.56 | gamma-CADINENE | 0.04 |
| 66 | 40.83 | SESQUITERPENE | 0.04 |
| 67 | 41.56 | MENTHADIENOL ISOMER | 0.04 |
| 68 | 41.73 | TERPENIC COMPOUND | 0.04 |
| 69 | 42.54 | NEROL | 0.23 |
| 70 | 43.42 | SESQUITERPENE Mw=202 | 0.03 |
| 71 | 44.12 | 2-TRIDECANONE | 0.01 |
| 72 | 44.58 | SESQUITERPENE Mw=202 | 0.06 |
| 73 | 44.99 | p-CYMENE-8-OL | 0.01 |
| 74 | 45.19 | GERANIOL | 0.02 |
| 75 | 47.35 | TERPENIC COMPOUND | 0.05 |

| | | | |
|---|---|---|---|
| 76 | 48.02 | Epi-CUBEBOL | 0.01 |
| 77 | 51.40 | TERPENIC COMPOUND | 0.02 |
| 78 | 52.33 | CARYOPHYLLENE OXIDE | 0.09 |
| 79 | 53.66 | METHYLEUGENOL | 3.87 |
| 80 | 55.04 | PROPANOL, 3-PHENYL- | 0.03 |
| 81 | 55.34 | AROMATIC COMPOUND | 0.02 |
| 82 | 55.56 | NEROLIDOL | 0.01 |
| 83 | 56.10 | TERPENIC COMPOUND | 0.04 |
| 84 | 57.51 | VIRIDIFLOROL | 0.06 |
| 85 | 59.51 | SPATHULENOL | 0.16 |
| 86 | 60.19 | CINNAMYL ACETATE | 0.02 |
| 87 | 60.51 | EUGENOL | 1.18 |
| 88 | 61.60 | T-CADINOL | 0.01 |
| 89 | 61.75 | AGAROSPIROL | 0.01 |
| 90 | 62.44 | METHYLISOEUGENOL | 0.09 |
| 91 | 63.90 | ELEMICIN | 0.09 |
| 92 | 64.18 | alpha-EUDESMOL | 0.03 |
| 93 | 64.32 | beta-EUDESMOL | 0.05 |
| 94 | 64.41 | alpha-CADINOL | 0.04 |
| 95 | 66.41 | CINNAMIC ALCOHOL | 0.02 |
| 96 | 67.39 | TERPENIC COMPOUND | 0.02 |
| 97 | 68.47 | CHAVICOL | 0.04 |
| 98 | 69.35 | TERPENIC COMPOUND | 0.02 |
| 99 | 70.12 | COMPOUND Mw=220 | 0.02 |
| 100 | 71.88 | trans-ISOELEMICIN | 0.02 |
| | | **TOTAL** | **99.91** |

*Note: Peak 48 (SESQUITERPENE) is listed in the source report without a retention time or percentage; it is carried here as shown in the source. The source report states TOTAL 99.91.*

*Faithful copy of the GC/MS analysis report. The original document is kept in the MALIKA Essentials archives.*