

Sample Information

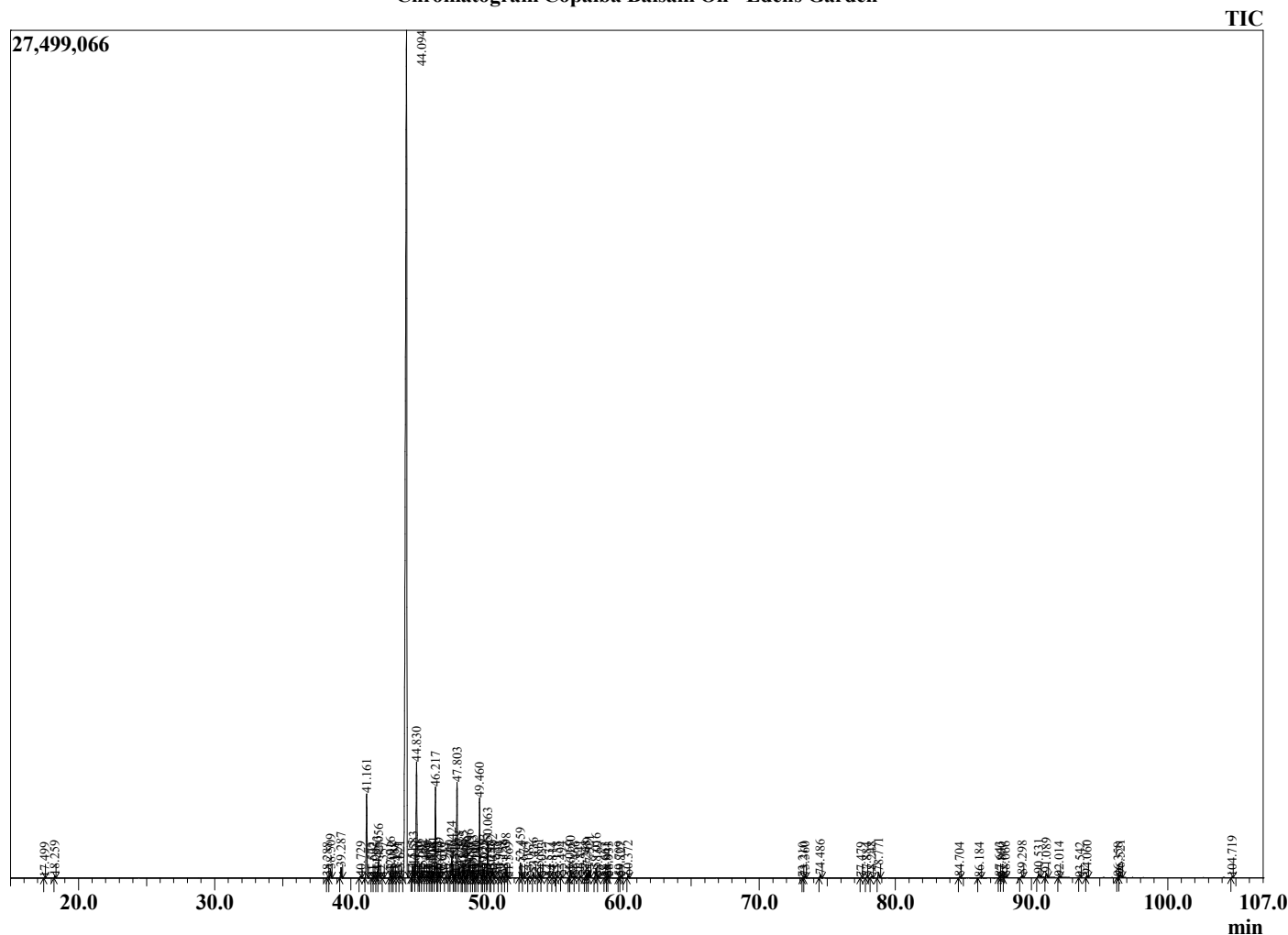
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 7/120/2022 9:47:37 AM  
 Sample Type : Essential Oil  
 Sample Name : Copaiba Balsam Oil - Edens Garden  
 Sample ID : EG Lot #BB10GR  
 Injection Volume : 0.10  
 Instrument ID: : GC-4



Peak Report TIC

| R.Time | Name                               | Area% |
|--------|------------------------------------|-------|
| 17.499 | 1-para-Menthene                    | 0.01  |
| 18.259 | (Z)-beta-Ocimene                   | 0.07  |
| 38.288 | Elemene analog                     | 0.03  |
| 38.509 | delta-Elemene                      | 0.38  |
| 39.287 | alpha-Cubebene                     | 0.46  |
| 40.729 | alpha-Ylangene + Isoledene         | 0.10  |
| 41.161 | alpha-Copaene                      | 3.70  |
| 41.572 | Elemene analog                     | 0.01  |
| 41.692 | Unidentified                       | 0.01  |
| 41.953 | beta-Cubebene                      | 0.30  |
| 42.056 | beta-Elemene                       | 0.85  |
| 42.357 | Unidentified                       | 0.01  |
| 42.916 | Cyperene                           | 0.27  |
| 43.012 | cis-beta-Caryophyllene             | 0.07  |
| 43.188 | alpha-Gurjunene                    | 0.03  |
| 43.421 | Unidentified                       | 0.04  |
| 43.621 | cis-alpha-Bergamotene              | 0.10  |
| 44.094 | trans-beta-Caryophyllene           | 61.39 |
| 44.515 | Unidentified                       | 0.05  |
| 44.583 | gamma-Elemene                      | 0.55  |
| 44.830 | trans-alpha-Bergamotene            | 5.23  |
| 44.970 | Unidentified                       | 0.02  |
| 45.140 | Aromadendrene                      | 0.07  |
| 45.292 | (Z)-beta-Farnesene                 | 0.20  |
| 45.466 | beta-Humulene                      | 0.05  |
| 45.689 | epi-beta-Santalane                 | 0.10  |
| 45.813 | trans-Murrola-3,5-diene            | 0.03  |
| 45.918 | Unidentified                       | 0.02  |
| 46.061 | (E)-beta-Farnesene                 | 0.27  |
| 46.217 | alpha-Humulene                     | 4.07  |
| 46.342 | Sesquisabinene                     | 0.03  |
| 46.479 | Alloaromadendrene                  | 0.25  |
| 46.610 | Unidentified                       | 0.02  |
| 46.943 | Unidentified                       | 0.03  |
| 47.240 | 10-beta-H-Cadina-1(6),4-diene      | 0.08  |
| 47.424 | trans-Cadina-1(6),4-diene          | 1.07  |
| 47.599 | gamma-Curcumene                    | 0.08  |
| 47.710 | alpha-Amorphene                    | 0.11  |
| 47.803 | Germacrene D                       | 4.35  |
| 47.978 | trans-beta-Bergamotene             | 0.55  |
| 48.168 | delta-Selinene                     | 0.04  |
| 48.285 | beta-Selinene                      | 0.56  |
| 48.445 | Vridiflorene                       | 0.07  |
| 48.499 | trans-Murrola-4(14),5-diene        | 0.15  |
| 48.696 | Bicyclogermacrene                  | 0.79  |
| 48.875 | alpha-Murolene                     | 0.33  |
| 49.013 | cis-alpha-Bisabolene               | 0.35  |
| 49.140 | delta-Amorphene                    | 0.07  |
| 49.240 | Unidentified                       | 0.08  |
| 49.460 | beta-Bisabolene                    | 3.53  |
| 49.630 | (Z)-gamma-Bisabolene               | 0.14  |
| 49.753 | gamma-Cadinene                     | 0.38  |
| 49.934 | Cubebol + Unidentified             | 0.14  |
| 50.063 | delta-Cadinene                     | 1.66  |
| 50.255 | trans-Calamenene                   | 0.03  |
| 50.402 | Zonarene + beta-Sesquiphellandrene | 0.50  |
| 50.578 | (E)-gamma-Bisabolene               | 0.04  |
| 50.904 | trans-Cadina-1,4-diene             | 0.07  |
| 51.158 | alpha-Cadinene                     | 0.12  |
| 51.398 | trans-alpha-Bisabolene             | 0.46  |
| 51.569 | Sesquisabinene hydrate isomer      | 0.02  |
| 52.459 | Germacrene B                       | 0.70  |

Chromatogram Copaiba Balsam Oil - Edens Garden



Comments:

The analysis of this Copaiba Balsam Oil batch sample meets the expected chemical profile for authentic essential oil of *Copaifera langsdorffii*.

No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.

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| R.Time  | Name                   | Area%  |
|---------|------------------------|--------|
| 52.674  | Unidentified           | 0.03   |
| 53.082  | Unidentified           | 0.06   |
| 53.436  | Caryophyllene alcohol  | 0.24   |
| 53.811  | Caryophyllene oxide    | 0.21   |
| 54.033  | Globulol               | 0.03   |
| 54.537  | Viridiflorol           | 0.03   |
| 54.814  | Unidentified           | 0.01   |
| 55.138  | Ledol                  | 0.05   |
| 55.494  | Unidentified           | 0.06   |
| 56.060  | Unidentified           | 0.08   |
| 56.150  | Humulane-1,6-dien-3-ol | 0.36   |
| 56.466  | Epicubenol             | 0.06   |
| 56.841  | Unidentified           | 0.08   |
| 57.268  | tau-Cadinol            | 0.12   |
| 57.369  | epi-alpha-Cadinol      | 0.23   |
| 57.521  | delta-Cadinol          | 0.34   |
| 58.016  | alpha-Cadinol          | 0.52   |
| 58.169  | Intermedeol            | 0.06   |
| 58.662  | trans-Bisabolol-11-ol  | 0.01   |
| 58.841  | Unidentified           | 0.03   |
| 58.933  | beta-Bisabolol         | 0.04   |
| 59.709  | epi-alpha-Bisabolol    | 0.05   |
| 59.827  | alpha-Bisabolol        | 0.03   |
| 60.372  | Juniper camphor        | 0.10   |
| 73.210  | Thunbergol             | 0.02   |
| 73.360  | Unidentified           | 0.06   |
| 74.486  | Unidentified           | 0.16   |
| 77.479  | Unidentified           | 0.03   |
| 77.884  | Unidentified           | 0.03   |
| 78.248  | Manool                 | 0.09   |
| 78.771  | Unidentified           | 0.26   |
| 84.704  | Unidentified           | 0.04   |
| 86.184  | Unidentified           | 0.03   |
| 87.643  | Unidentified           | 0.04   |
| 87.800  | Unidentified           | 0.02   |
| 88.066  | Unidentified           | 0.09   |
| 89.298  | Methyl copalate analog | 0.14   |
| 90.531  | Unidentified           | 0.23   |
| 91.089  | Unidentified           | 0.22   |
| 92.014  | Unidentified           | 0.04   |
| 93.542  | Unidentified           | 0.02   |
| 94.060  | Unidentified           | 0.12   |
| 96.358  | Unidentified           | 0.02   |
| 96.521  | Unidentified           | 0.16   |
| 104.719 | Unidentified           | 0.03   |
|         |                        | 100.00 |