

Sample Information

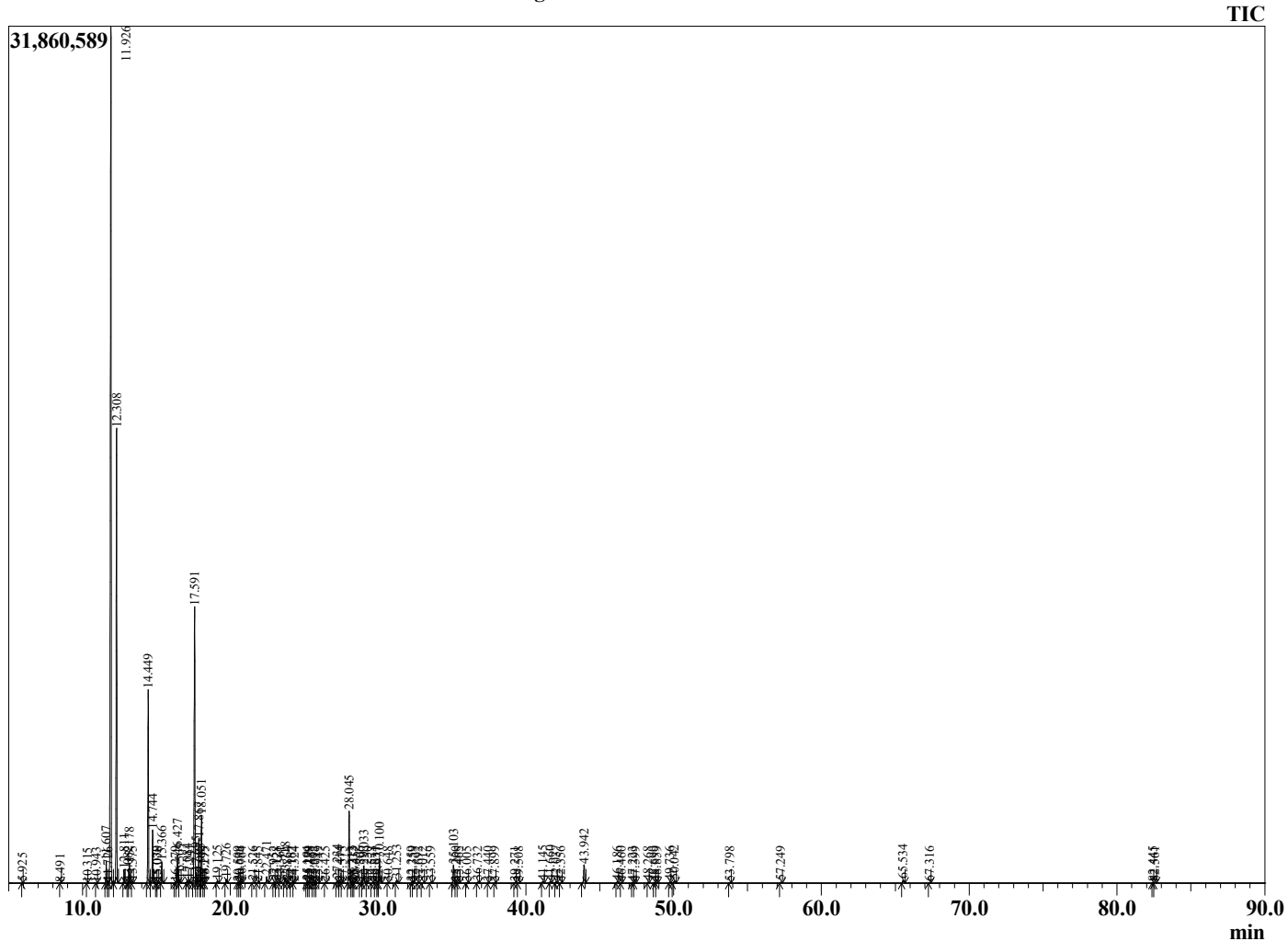
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 10/6/2021 8:52:18 PM  
 Sample Type : Essential Oil  
 Sample Name : Frankincense Oil - Barefut  
 Sample ID : 0102  
 Injection Volume : 0.10  
 Instrument ID : GC-4



Peak Report TIC

| R.Time | Name                       | Area% |
|--------|----------------------------|-------|
| 5.925  | Toluene                    | 0.03  |
| 8.491  | Unidentified               | 0.01  |
| 10.315 | Unidentified               | 0.01  |
| 10.943 | Unidentified               | 0.02  |
| 11.607 | Hashishene                 | 0.79  |
| 11.726 | Tricyclene                 | 0.04  |
| 11.926 | alpha-Thujene              | 41.14 |
| 12.308 | alpha-Pinene               | 16.84 |
| 12.811 | Thujadiene isomer          | 0.49  |
| 13.082 | alpha-Fenchene             | 0.03  |
| 13.178 | Camphene                   | 0.72  |
| 13.375 | Thuja-2,4(10)-diene        | 0.04  |
| 14.449 | Sabinene                   | 7.33  |
| 14.744 | beta-Pinene                | 2.01  |
| 15.030 | Unidentified               | 0.01  |
| 15.078 | 6-Methyl-5-hepten-2-one    | 0.02  |
| 15.366 | Myrcene                    | 0.81  |
| 16.279 | Pseudolimonene             | 0.02  |
| 16.427 | alpha-Phellandrene         | 1.15  |
| 16.569 | delta-3-Carene             | 0.14  |
| 17.084 | alpha-Terpinene            | 0.13  |
| 17.241 | ortho-Cymene               | 0.12  |
| 17.591 | para-Cymene                | 12.25 |
| 17.695 | Unidentified               | 0.41  |
| 17.867 | Limonene                   | 1.83  |
| 17.985 | beta-Phellandrene          | 0.07  |
| 18.051 | 1,8-Cineole                | 2.75  |
| 18.199 | meta-Cymene                | 0.03  |
| 18.275 | Unidentified               | 0.01  |
| 19.125 | Unidentified               | 0.09  |
| 19.726 | gamma-Terpinene            | 0.17  |
| 20.509 | trans-4-Thujanol           | 0.02  |
| 20.636 | Unidentified               | 0.02  |
| 20.764 | Unidentified               | 0.04  |
| 21.526 | Terpinolene                | 0.04  |
| 21.845 | Dehydro-p-cymene           | 0.03  |
| 22.471 | Linalool                   | 0.33  |
| 22.952 | alpha-Thujone              | 0.04  |
| 23.128 | Unidentified               | 0.04  |
| 23.361 | Unidentified               | 0.05  |
| 23.718 | beta-Thujone               | 0.33  |
| 23.864 | Myrcenol                   | 0.04  |
| 24.162 | cis-para-Menth-2-en-1-ol   | 0.03  |
| 24.324 | alpha-Campholenal          | 0.01  |
| 25.194 | trans-Sabinol              | 0.05  |
| 25.279 | trans-Pinocarveol          | 0.04  |
| 25.388 | trans-para-Menth-2-en-1-ol | 0.02  |
| 25.602 | trans-Verbenol             | 0.04  |
| 25.717 | Camphor                    | 0.01  |
| 25.949 | alpha-Phellandrene-8-ol    | 0.02  |
| 26.425 | Unidentified               | 0.02  |
| 27.234 | Unidentified               | 0.16  |
| 27.414 | para-Mentha-1,5-dien-8-ol  | 0.04  |
| 27.575 | Unidentified               | 0.01  |
| 28.045 | Terpinen-4-ol              | 3.50  |
| 28.212 | Thuj-3-en-10-al            | 0.02  |
| 28.313 | 4-Methyl acetophenone      | 0.02  |
| 28.452 | para-Cymen-8-ol            | 0.09  |
| 28.806 | Myrtenol                   | 0.01  |
| 29.033 | alpha-Terpineol            | 0.86  |
| 29.250 | Unidentified               | 0.01  |
| 29.573 | alpha-Phellandrene epoxide | 0.03  |

Chromatogram Frankincense Oil - Barefut



Comments:

The analysis of this Frankincense batch sample meets the expected chemical profile for authentic essential oil of *Boswellia frereana*. 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.

| R.Time | Name                      | Area%  |
|--------|---------------------------|--------|
| 29.831 | 2-Pinen-4-one             | 0.03   |
| 29.977 | Unidentified              | 0.01   |
| 30.100 | Octyl acetate             | 1.18   |
| 30.648 | trans-Carveol             | 0.01   |
| 31.253 | 1-Methoxy decane          | 0.13   |
| 32.259 | Cuminaldehyde             | 0.03   |
| 32.359 | Unidentified              | 0.01   |
| 32.692 | Unidentified              | 0.03   |
| 33.012 | Unidentified              | 0.04   |
| 33.559 | Unidentified              | 0.05   |
| 35.103 | Bornyl acetate            | 0.90   |
| 35.260 | Isobornyl acetate         | 0.03   |
| 35.465 | Thymol                    | 0.02   |
| 36.005 | Carvacrol                 | 0.03   |
| 36.732 | Unidentified              | 0.06   |
| 37.440 | Unidentified              | 0.01   |
| 37.899 | Unidentified              | 0.01   |
| 39.271 | alpha-Cubebene            | 0.02   |
| 39.508 | Eugenol                   | 0.02   |
| 41.145 | alpha-Copaene             | 0.08   |
| 41.660 | beta-Bourbonene           | 0.08   |
| 42.037 | beta-Elemene              | 0.08   |
| 42.356 | Unidentified              | 0.02   |
| 43.942 | trans-beta-Caryophyllene  | 1.01   |
| 46.186 | alpha-Humulene            | 0.06   |
| 46.460 | Alloaromadendrene         | 0.01   |
| 47.223 | trans-Cadina-1(6),4-diene | 0.01   |
| 47.399 | gamma-Murolene            | 0.03   |
| 48.268 | beta-Selinene             | 0.04   |
| 48.699 | alpha-Selinene            | 0.03   |
| 48.859 | alpha-Murolene            | 0.02   |
| 49.736 | gamma-Cadinene            | 0.04   |
| 50.042 | delta-Cadinene            | 0.10   |
| 53.798 | Caryophyllene oxide       | 0.03   |
| 57.249 | tau-Cadinol               | 0.04   |
| 65.534 | Unidentified              | 0.16   |
| 67.316 | Unidentified              | 0.02   |
| 82.445 | Unidentified              | 0.01   |
| 82.561 | Serratol                  | 0.04   |
|        |                           | 100.00 |