



# Essential Oil University

## GC/MS Report

| Item                                                    | Lot                  |
|---------------------------------------------------------|----------------------|
| NOP Lavender EO Greece<br><i>Lavandula angustifolia</i> | 7K                   |
| Date                                                    | Analyst              |
| 6/10/2025                                               | Dr. Robert S. Pappas |

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**The analysis of this batch sample, NOP Lavender EO Greece, meets the expected chemical profile for authentic essential oil of *Lavandula angustifolia*. 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.**



## Sample Information

**Company:** Revive  
**Sample Name:** NOP Lavender EO Greece  
**Botanical Name:** Lavandula angustifolia  
**Lot Number:** 7K  
**Production Method:** Steam distilled

**Sample Type:** EO - Certified Organics  
**Country of Origin:** Greece  
**Analysis Date:** 6/10/2025  
**Manufacture Date:** June 2022

## GC/MS

**Inst. ID:** Shimadzu GCMS-QP2010Ultra  
**Injection Type:** Split  
**Split Ratio:** 24.4

**Column Type:** ZB-5  
**Injection Volume:** 0.1 µL  
**Temperature Program:** 2C/min

## Physical Data

### ANALYSIS

Optical Rotation @20°C  
Refractive Index @20°C  
Specific Gravity @20°C

### METHOD

USP[781]  
USP[831]  
USP[841]

### RESULTS

-7.80  
1.46219  
0.88288



| Ret. Time | Component                       | Ret. Idx. | Conc. % |      |
|-----------|---------------------------------|-----------|---------|------|
| 3.617     | 2-Methyl-3-buten-2-ol           | 606       | 0.02%   |      |
| 4.036     | 3-Methylbutanal                 | 647       | 0.01%   |      |
| 4.151     | Unidentified                    | 658       | 0.01%   |      |
| 4.356     | 3-Penten-2-ol                   | 678       | 0.01%   |      |
| 5.161     | Unidentified                    | 727       | 0.01%   |      |
| 5.249     | Unidentified                    | 731       | 0.01%   |      |
| 5.915     | Unidentified                    | 762       | 0.01%   |      |
| 7.106     | Butyl acetate                   | 810       | 0.02%   |      |
| 7.514     | 1-Methoxyhexane                 | 820       | 0.14%   |      |
| 9.100     | Hexanol                         | 862       | 0.04%   |      |
| 11.676    | Tricyclene                      | 920       | 0.02%   |      |
| 11.826    | alpha-Thujene                   | 923       | 0.12%   |      |
| 12.229    | alpha-Pinene                    | 930       | 0.24%   |      |
| 13.122    | Camphene                        | 947       | 0.15%   |      |
| 14.384    | Sabinene                        | 970       | 0.03%   |      |
| 14.727    | 1-Octen-3-ol                    | 976       | 0.14%   |      |
| 15.048    | 3-Octanone                      | 982       | 0.99%   |      |
| 15.318    | Myrcene                         | 987       | 0.75%   |      |
| 15.672    | Butyl butyrate                  | 993       | 0.14%   |      |
| 15.740    | 3-Octanol                       | 994       | 0.17%   |      |
| 16.289    | Unidentified                    | 1004      | 0.01%   |      |
| 16.369    | alpha-Phellandrene              | 1005      | 0.05%   |      |
| 16.517    | delta-3-Carene                  | 1007      | 0.09%   |      |
| 16.669    | Hexyl acetate                   | 1009      | 0.73%   |      |
| 17.030    | alpha-Terpinene                 | 1015      | 0.06%   |      |
| 17.187    | ortho-Cymene                    | 1017      | 0.04%   |      |
| 17.505    | para-Cymene                     | 1022      | 0.2%    |      |
| 17.808    | Limonene                        | 1027      | 0.36%   | IFRA |
| 17.920    | beta-Phellandrene               | 1029      | 0.15%   |      |
| 17.970    | 1,8-Cineole                     | 1029      | 0.9%    |      |
| 18.206    | cis-beta-Ocimene                | 1033      | 4.99%   |      |
| 18.518    | Unidentified                    | 1038      | 0.01%   |      |
| 18.885    | trans-beta-Ocimene              | 1043      | 3.2%    |      |
| 19.669    | gamma-Terpinene                 | 1055      | 0.2%    |      |
| 20.455    | cis-Linalool oxide (furanoid)   | 1067      | 0.17%   |      |
| 20.693    | Unidentified                    | 1071      | 0.01%   |      |
| 21.482    | Terpinolene                     | 1083      | 0.11%   |      |
| 21.505    | trans-Linalool oxide (furanoid) | 1083      | 0.08%   |      |
| 21.892    | Unidentified                    | 1089      | 0.01%   |      |
| 22.516    | Linalool                        | 1099      | 29.62%  | IFRA |



| Ret. Time | Component              | Ret. Idx. | Conc. % |      |
|-----------|------------------------|-----------|---------|------|
| 22.673    | Unidentified           | 1101      | 0.05%   |      |
| 22.781    | Hexyl propionate       | 1103      | 0.05%   |      |
| 22.951    | 1-Octen-3-yl acetate   | 1105      | 1.03%   | IFRA |
| 23.236    | Unidentified           | 1109      | 0.02%   |      |
| 23.773    | 3-Octyl acetate        | 1117      | 0.14%   |      |
| 24.093    | Unidentified           | 1122      | 0.02%   |      |
| 24.370    | allo-Ocimene           | 1126      | 0.27%   |      |
| 25.130    | Unidentified           | 1137      | 0.02%   |      |
| 25.195    | Unidentified           | 1138      | 0.02%   |      |
| 25.329    | Unidentified           | 1140      | 0.01%   |      |
| 25.639    | Camphor                | 1144      | 0.28%   |      |
| 25.685    | Hexyl isobutyrate      | 1145      | 0.07%   |      |
| 25.799    | Unidentified           | 1147      | 0.01%   |      |
| 26.793    | Lavandulol             | 1161      | 0.68%   |      |
| 27.197    | Unidentified           | 1167      | 0.01%   |      |
| 27.353    | Borneol                | 1169      | 0.58%   |      |
| 27.523    | Unidentified           | 1172      | 0.02%   |      |
| 27.629    | Undeca-1,3,5-triene    | 1173      | 0.02%   |      |
| 27.979    | Terpinen-4-ol          | 1178      | 5.24%   |      |
| 28.376    | Cryptone               | 1184      | 0.17%   |      |
| 28.742    | Hexyl butyrate         | 1189      | 0.55%   |      |
| 28.965    | alpha-Terpineol        | 1193      | 1.19%   |      |
| 29.892    | Unidentified           | 1206      | 0.01%   |      |
| 29.970    | Unidentified           | 1207      | 0.01%   |      |
| 30.043    | Unidentified           | 1208      | 0.02%   |      |
| 30.958    | Nerol                  | 1222      | 0.1%    |      |
| 31.238    | Bornyl formate         | 1226      | 0.04%   |      |
| 31.760    | Hexyl 2-methylbutyrate | 1234      | 0.04%   |      |
| 32.188    | Cuminal                | 1240      | 0.05%   | IFRA |
| 32.296    | Unidentified           | 1241      | 0.02%   |      |
| 32.771    | Linalyl acetate        | 1248      | 31.84%  |      |
| 32.830    | Geraniol               | 1249      | 0.14%   | IFRA |
| 33.962    | Unidentified           | 1266      | 0.01%   |      |
| 34.222    | Unidentified           | 1270      | 0.04%   |      |
| 34.598    | Unidentified           | 1275      | 0.01%   |      |
| 35.004    | Lavandulyl acetate     | 1281      | 4.31%   |      |
| 35.503    | Unidentified           | 1288      | 0.01%   |      |
| 36.198    | Tridecane              | 1299      | 0.01%   |      |
| 38.055    | Hexyl tiglate          | 1327      | 0.03%   |      |
| 38.224    | Unidentified           | 1329      | 0.01%   |      |



| Ret. Time | Component               | Ret. Idx. | Conc. % |  |
|-----------|-------------------------|-----------|---------|--|
| 38.995    | Unidentified            | 1341      | 0.01%   |  |
| 39.172    | Unidentified            | 1344      | 0.01%   |  |
| 39.474    | Unidentified            | 1349      | 0.01%   |  |
| 39.944    | Neryl acetate           | 1356      | 0.31%   |  |
| 41.073    | Unidentified            | 1373      | 0.01%   |  |
| 41.223    | Geranyl acetate         | 1375      | 0.58%   |  |
| 41.591    | beta-Bourbonene         | 1381      | 0.02%   |  |
| 41.743    | Hexyl hexanoate         | 1383      | 0.09%   |  |
| 41.847    | 7-epi-Sesquithujene     | 1385      | 0.07%   |  |
| 42.813    | Sesquithujene isomer    | 1399      | 0.02%   |  |
| 43.479    | cis-alpha-Bergamotene   | 1410      | 0.03%   |  |
| 43.874    | beta-Caryophyllene      | 1416      | 3.78%   |  |
| 44.730    | trans-alpha-Bergamotene | 1430      | 0.12%   |  |
| 44.921    | Unidentified            | 1433      | 0.01%   |  |
| 45.205    | Unidentified            | 1438      | 0.01%   |  |
| 45.420    | Unidentified            | 1441      | 0.03%   |  |
| 45.598    | epi-beta-Santalene      | 1444      | 0.02%   |  |
| 45.976    | trans-beta-Farnesene    | 1450      | 3.02%   |  |
| 46.109    | alpha-Humulene          | 1452      | 0.1%    |  |
| 46.249    | Sesquisabinene          | 1454      | 0.03%   |  |
| 46.519    | Unidentified            | 1459      | 0.01%   |  |
| 47.707    | Germacrene D            | 1478      | 0.27%   |  |
| 47.888    | trans-beta-Bergamotene  | 1481      | 0.04%   |  |
| 49.157    | Unidentified            | 1501      | 0.01%   |  |
| 49.360    | beta-Bisabolene         | 1505      | 0.02%   |  |
| 49.666    | gamma-Cadinene          | 1510      | 0.05%   |  |
| 49.951    | Unidentified            | 1515      | 0.02%   |  |
| 53.726    | Caryophyllene oxide     | 1578      | 0.14%   |  |
| 57.182    | tau-Cadinol             | 1638      | 0.01%   |  |
| 102.470   | Unidentified            | 2636      | 0.01%   |  |

Total Identified Compounds **99.49 %**

