



Essential Oil University

GC/MS Report

| Item | Lot |
|---|----------------------|
| Thyme (ct. Linalool) EO <i>Thymus vulgaris</i> | 4M |
| Date | Analyst |
| 12/9/2025 | Dr. Robert S. Pappas |

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The analysis of this batch sample, Thyme (ct. Linalool) EO, meets the expected chemical profile for authentic essential oil of *Thymus vulgaris*. 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: Thyme (ct. Linalool) EO
Botanical Name: Thymus vulgaris
Lot Number: 4M
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: France
Analysis Date: 12/9/2025
Manufacture Date: November 2025

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 | METHOD | RESULTS |
|------------------------|----------|---------|
| Optical Rotation @20°C | USP[781] | -16.48 |
| Refractive Index @20°C | USP[831] | 1.46248 |
| Specific Gravity @20°C | USP[841] | 0.87197 |



| Ret. Time | Component | Ret. Idx. | Conc. % | |
|-----------|---------------------------------|-----------|---------|---------------|
| 6.287 | Unidentified | 761 | 0.03% | |
| 10.103 | Unidentified | 872 | 0.01% | |
| 12.071 | Tricyclene | 915 | 0.25% | |
| 12.220 | alpha-Thujene | 917 | 0.01% | |
| 12.635 | alpha-Pinene | 925 | 0.59% | ALLERGEN |
| 12.969 | beta-Fenchene | 930 | 0.01% | |
| 13.454 | alpha-Fenchene | 939 | 0.03% | |
| 13.553 | Camphene | 941 | 1.37% | |
| 14.830 | Sabinene | 963 | 0.01% | |
| 15.177 | 1-Octen-3-ol | 969 | 0.13% | |
| 15.550 | 3-Octanone | 976 | 0.01% | |
| 15.771 | Myrcene | 980 | 0.16% | PROP. 65 |
| 16.241 | 3-Octanol | 988 | 0% | |
| 16.848 | alpha-Phellandrene | 999 | 0.01% | |
| 17.514 | alpha-Terpinene | 1009 | 0.02% | ALLERGEN |
| 17.994 | para-Cymene | 1016 | 0.04% | |
| 18.300 | Limonene | 1021 | 0.14% | ALLERGEN IFRA |
| 18.407 | beta-Phellandrene | 1022 | 0.03% | |
| 18.488 | 1,8-Cineole | 1024 | 0.58% | |
| 18.697 | cis-beta-Ocimene | 1027 | 0.09% | |
| 19.389 | trans-beta-Ocimene | 1037 | 0.12% | |
| 20.188 | gamma-Terpinene | 1049 | 0.03% | |
| 21.002 | cis-Linalool oxide (furanoid) | 1061 | 0.19% | |
| 22.030 | Terpinolene | 1077 | 0.04% | ALLERGEN |
| 22.080 | trans-Linalool oxide (furanoid) | 1077 | 0.26% | |
| 23.174 | Linalool | 1094 | 81.99% | ALLERGEN IFRA |
| 23.291 | Hotrienol | 1096 | 0.06% | |
| 23.373 | Nonanal | 1097 | 0.08% | |
| 23.513 | 1-Octen-3-yl acetate | 1099 | 0.03% | IFRA |
| 24.338 | endo-Fenchol | 1111 | 0.01% | |
| 26.241 | Camphor | 1138 | 1.87% | ALLERGEN |
| 27.364 | Lavandulol | 1154 | 0.04% | |
| 27.805 | cis-Linalool oxide (pyranoid) | 1160 | 0.02% | |
| 27.954 | Borneol | 1163 | 0.45% | |
| 28.106 | trans-Linalool oxide (pyranoid) | 1165 | 0.01% | |
| 28.560 | Terpinen-4-ol | 1171 | 0.21% | |
| 29.040 | Hex-(3Z)-enyl butyrate | 1178 | 0.06% | |
| 29.334 | Hexyl butyrate | 1182 | 0.02% | |
| 29.561 | alpha-Terpineol | 1186 | 0.19% | ALLERGEN |
| 31.550 | Nerol | 1214 | 0.02% | |



| Ret. Time | Component | Ret. Idx. | Conc. % | |
|-----------|-------------------------|-----------|---------|----------|
| 32.790 | Unidentified | 1232 | 0.01% | |
| 33.017 | Unidentified | 1236 | 0.01% | |
| 33.309 | Linalyl acetate | 1240 | 6.54% | ALLERGEN |
| 34.090 | Unidentified | 1251 | 0.01% | |
| 34.536 | Geranial | 1258 | 0% | |
| 35.143 | Carvacrol | 1266 | 0.02% | |
| 35.599 | Lavandulyl acetate | 1273 | 0.15% | |
| 35.997 | Thymol | 1279 | 0% | |
| 36.547 | Carvacrol | 1287 | 0.09% | |
| 38.680 | Hexyl tiglate | 1319 | 0.01% | |
| 39.180 | alpha-Terpinyl acetate | 1326 | 0.02% | |
| 40.319 | Unidentified | 1343 | 0.01% | |
| 40.575 | Neryl acetate | 1347 | 0.05% | |
| 41.725 | alpha-Copaene | 1365 | 0% | |
| 41.860 | Geranyl acetate | 1367 | 0.11% | ALLERGEN |
| 42.262 | beta-Bourbonene | 1373 | 0.07% | |
| 44.111 | cis-beta-Caryophyllene | 1401 | 0.04% | ALLERGEN |
| 44.560 | beta-Caryophyllene | 1408 | 2.94% | ALLERGEN |
| 45.191 | beta-Copaene | 1418 | 0.01% | |
| 45.401 | trans-alpha-Bergamotene | 1421 | 0.01% | |
| 46.632 | trans-beta-Farnesene | 1441 | 0.04% | |
| 46.803 | alpha-Humulene | 1444 | 0.02% | |
| 48.394 | Germacrene D | 1469 | 0.07% | |
| 49.479 | alpha-Muurolene | 1486 | 0.01% | |
| 49.674 | Unidentified | 1489 | 0.01% | |
| 50.042 | Unidentified | 1495 | 0.01% | |
| 50.358 | gamma-Cadinene | 1500 | 0.02% | |
| 50.662 | delta-Cadinene | 1505 | 0.02% | |
| 52.878 | Geranyl butyrate | 1543 | 0.01% | |
| 54.444 | Caryophyllene oxide | 1569 | 0.48% | |
| 57.895 | tau-Cadinol | 1628 | 0% | |
| 60.328 | epi-alpha-Bisabolol | 1671 | 0.01% | IFRA |

Total Identified Compounds **99.92 %**



TIC
45,867,792

