



| GC-MS Analysis                            |                        |  |          |                        |                              |
|---|------------------------|--|----------|------------------------|------------------------------|
| <b>Product Name</b>                       |                        | <b>Spearmint Es.Oil</b>                      |          |                        |                              |
| <b>Product Type</b>                       |                        | <b>Essential oil</b>                         |          |                        |                              |
| <b>Botanical Name</b>                     |                        | <b><i>Mentha spicata</i></b>                 |          |                        |                              |
| <b>Batch N°</b>                           |                        | <b>SP2023001B</b>                            |          |                        |                              |
| <b>Label name</b>                         |                        | <b>GREEK SPEARMINT ORGANIC ESSENTIAL OIL</b> |          |                        |                              |
| <b>Density at 20°C (g/cm<sup>3</sup>)</b> |                        | <b>0.926</b>                                 |          |                        |                              |
| <b>Refractive Index at 20°C</b>           |                        | <b>1.488</b>                                 |          |                        |                              |
| <b>Optical rotation at 20°C</b>           |                        | <b>-61.15°</b>                               |          |                        |                              |
| <b>Production Date</b>                    |                        | <b>July 2022</b>                             |          |                        |                              |
| <b>Shelf Life</b>                         |                        | <b>5 years</b>                               |          |                        |                              |
| <b>Origin</b>                             |                        | <b>Greece</b>                                |          |                        |                              |
| <b>Cultivation</b>                        |                        | <b>Organic certified</b>                     |          |                        |                              |
| <b>Production</b>                         |                        | <b>Steam Distillation</b>                    |          |                        |                              |
| <b>Plant Part</b>                         |                        | <b>Aerial Parts</b>                          |          |                        |                              |
| <b>Time</b>                               | <b>Compounds</b>       | <b>CAS N°</b>                                | <b>%</b> | <b>Chemical Family</b> | <b>IFRA 49th Restriction</b> |
| 24.85                                     | Limonene               | 5989-27-5                                    | 20.41    | Monoterpene            | Cosmetic Allergen            |
| 29.11                                     | 3-Octanol              | 4864-61-3                                    | 0.05     | Alcohol                |                              |
| 31.42                                     | Linalool               | 78-70-6                                      | 0.06     | Alcohol                |                              |
| 33.40                                     | Sabinene trans-hydrate | 546-79-2                                     | 0.07     | Monoterpenoid          |                              |
| 45.09                                     | Menthone               | 89-80-5                                      | 0.39     | Monoterpenic ketone    |                              |
| 52.24                                     | Beta-bourbonene        | 5208-59-3                                    | 0.72     | Monoterpene            |                              |

Farmakeika, Neo Risio, Thessaloniki, Greece  
 Tel: +302310463719  
 Email: [info@vessel.gr](mailto:info@vessel.gr)



**vessel**  
essential oils

|       |                             |           |       |                       |
|-------|-----------------------------|-----------|-------|-----------------------|
| 56.54 | Cis-carvyl acetate          | 97-42-7   | 0.05  | Monoterpenic aldehyde |
| 58.07 | Trans-dihydrocarvyl acetate | 2497-18-9 | 1.90  | Monoterpenic aldehyde |
| 58.78 | Carvone                     | 99-49-0   | 61.19 | Ketone                |
| 59.56 | Cis-dihydrocarvone          | 3792-53-8 | 0.60  | Ketone                |
| 61.20 | Menthol                     | 2216-51-5 | 1.04  | Monoterpenic alcohol  |
| Total |                             |           | 86.48 |                       |

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