

Certificate of Analysis

Sweet Marjoram CO2 Select

Batch #GE-59274

production: February 2022 retest: February 2027
raw material: *Origanum majorana* - Leaves, dried

country of origin of raw material: Germany
country of origin of product: Germany
D/E - ratio: 40 - 83 kg raw material yield 1 kg product.

Product contains: no carriers and excipients

Sensory Check

| feature | reference | result |
|-------------|-----------------------------|--------|
| Appearance: | yellow to pale brown liquid | meets |
| Odour: | characteristic | meets |

Analytical Check

| feature | method | limits | value | unit |
|--|--------------------------------------|---------------|-------------------|-------------------|
| Content of essential oil | 21.006.01, Distillation, gravimetric | 60 - 80 | 75,3 | % (g/ 100g) |
| Composition of the volatile compounds: | GCMS, 100 % Method | | | |
| Sabinene | GCMS, 21.139.03 | < 10 | 3,8 | % |
| Sabinene Hydrate cis + trans | GCMS, 21.139.03 | 30 - 60 | 32,5 (27,6 + 4,9) | % |
| Terpinene-4-ol | GCMS, 21.139.03 | < 25 | 8,2 | % |
| Sabinene Hydrate Acetate cis + trans | GCMS, 21.139.03 | 10 - 30 | 30,0 (29,7 + 0,3) | % |
| Refractive index (20°C) | 21.080.03, Abbe-Refractometer | 1,464 - 1,474 | 1,4663 | |
| Density (20°C) | 21.024.03, Pycnometer | 0,900 - 0,930 | 0,9222 | g/cm ³ |
| Monitoring of substances*: | | | | |
| Estragole (= Methyl chavicol) | GCMS | n.s. | n.d. (< 0,01) | % |
| Camphor | GCMS | n.s. | n.d. (< 0,01) | % |

n.s. = not specified n.d. = not detected

*Substances to be monitored according to "Arrêté du Juin 2014" laying down the list of plants, authorized in food supplements

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The product meets the current version of the analytical (004.001_08_AS) and of the general (004.001_08_S) specification.

date of analysis: 2022.02.09

This computerized CoA has digital signature validated by Nature's Gift.

Digitally signed by Anja Cawelius
Reason: Quality control
Date: 2022.02.09 09:45:05+01'00'

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