

## ANALYSIS

**Product Name :** ORGANIC ROSEMARY OIL Type Cineol

Aceite esencial tipo cineol Ecológico

**Botanical name :** *Rosmarinus officinalis*

**Batch number :** LSB107859

**Origin :** Spain

### Analysis features :

Agilent GC System 7890A - Column : HP INNOWAX polaire : 60 m ´ 0,25 mm ´ 0,5 µm

Temperature program : 8 min to 95 °C – 4 °C/min till 190 °C - 29 min to 190°C

Carrier gas H2 : 30 psis/FID. Injector : split. Sample : 0.1 µl without dilution

The compounds of the essential oils are identified by retention times.

% Are calculated from the peak areas given by the GC / FID without the use of a correction factor.

### Physical characteristics:

|                            |       |
|----------------------------|-------|
| Density at 20°C            | 0,909 |
| Refractive index at 20°C   | 1,466 |
| Optical rotation at a 20°C | 0,5   |

**Production date:** June 2019

**Best before end:** June 2023

## GC Results

| COMPONENTS           | %            | Standar   | Pharma    |
|----------------------|--------------|-----------|-----------|
| TRICYCLEN            | 0,20         |           |           |
| a-PINENE + a-THUYENE | 12,69        | 9 - 14    | 9 - 14    |
| a-FENCHENE           | 0,06         |           |           |
| CAMPHENE             | 4,11         | 2.5 - 6   | 2.5 - 6   |
| b-PINENE             | 7,07         | 4 - 9     | 4 - 9     |
| PINADIENE            | 0,02         |           |           |
| b-MYRCENE            | 1,46         | 1 - 2     | 1 - 2     |
| a-PHELLANDRENE       | 0,23         |           |           |
| a-TERPINENE          | 0,46         |           |           |
| LIMONENE             | 2,81         | 1.5 - 4   | 1.5 - 4   |
| 1-8- CINEOL          | 44,62        | 38 - 55   | 38 - 55   |
| g-TERPINENE          | 1,00         |           |           |
| 3-OCTANONE           | 0,04         |           |           |
| p-CYMENE             | 1,15         | 0.5 - 2.5 | 0.8 - 2.5 |
| TERPINOLENE          | 0,39         |           |           |
| YLANGENE             | 0,05         |           |           |
| CAMPHOR              | 10,55        | 5 - 15    | 5 - 15    |
| LINALOOL             | 0,59         |           |           |
| BORNYL ACETATE       | 0,92         | 0.1 - 1.6 | 0.1 - 1.5 |
| TERPINEN-4-OL        | 0,67         |           |           |
| b-CARYOPHYLLENE      | 3,21         |           |           |
| a-HUMULENE+NERAL     | 0,38         |           |           |
| a-TERPINEOL          | 1,83         |           | 1 - 2.6   |
| BORNEOL              | 2,95         | 1 - 6     | 1.5 - 5   |
| VERBENONE            | 0,08         | 0 - 0.4   | < 0.4     |
| d-CADINENE           | 0,21         |           |           |
| g-CADINENE           | 0,10         |           |           |
| p-CYMEN-8-OL         | 0,02         |           |           |
| CARYOPHYLLEN OXYDE   | 0,11         |           |           |
| <b>TOTAL</b>         | <b>97,96</b> |           |           |

