

## Certificate of Analysis

Product: Rosemary CT Cineole Oil (Tunisia)

Botanical Name: *Rosmarinus Officinalis*

Origin: Tunisia

Plant Part used: Flowering tops and leaves

Extraction: Steam distillation

<b>Physical data</b>	<b>Specification</b>	<b>Result</b>
Appearance:	Clear free flowing liquid	Complies
Colour:	Pale straw yellow	Complies
Odour:	Characteristic	Complies
Relative Density at 20°C:	0.895 to 0.920	0.912
Refractive Index at 20°C:	1.459 to 1.474	1.467
Optical Rotation at 20°C:	-5.0 <sup>0</sup> to +8.0 <sup>0</sup>	+0.9 <sup>0</sup>

### Chromatographic Profile

<b>Sample</b>	<b>Component</b>	<b>Specification Peak Area (%)</b>	<b>Result Peak Area (%)</b>
<i>Rosmarinus officinalis</i>	a-Pinene	5.0 to 20.0	11.3
	Camphene	Trace to 8.0	4.3
	b-Pinene	2.0 to 15.0	7.4
	1,8 Cineole	35.0 to 58.0	47.0
	Camphor	4.0 to 25.0	10.2
	b-Caryophyllene	Trace to 6.0	3.6