

CERTIFICATE OF ANALYSIS

Product: Rosemary Essential Oil – ct Cineole (Tunisia)

Lot No.: 11330B10620

Best Before: June, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow clear liquid.	Complies
Odor:	Characteristic camphor like odor.	Complies
Miscibility in ethanol:	1,2 volumes of alcohol 80 %	Complies
Specific Gravity:	0.907 to 0.920 @ 20°C	0.9097
Refractive Index:	1.4640 to 1.4700 @ 20°C	1.4651
Optical Rotation:	-2° to +5°	-1.31°
1,8-cineole:	38 – 55 %	48.2
α -pinene:	9 – 14 %	12.5
Camphor:	5 – 15 %	9.0
Camphene:	2.5 – 6.0 %	4.7

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Rosemary Essential Oil – ct Cineole (Tunisia)

Lot No.: 11330A10120

Best Before: January, 2022

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow clear liquid.	Complies
Odor:	Characteristic camphor like odor.	Complies
Miscibility in ethanol:	1,2 volumes of alcohol 80 %	Complies
Specific Gravity:	0.907 to 0.920 @ 20°C	0.9115
Refractive Index:	1.4640 to 1.4700 @ 20°C	1.4659
Optical Rotation:	-2° to +5°	+0.55°
1,8-cineole:	38 – 55 %	45.8
α -pinene:	9 – 14 %	12.2
Camphor:	5 – 15 %	9.9
Camphene:	2.5 – 6.0 %	4.5

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CERTIFICATE OF ANALYSIS

Product: Rosemary Essential Oil – ct Cineole (Tunisia)

Lot No.: 11330A11119

Best Before: November, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow clear liquid.	Complies
Odor:	Characteristic camphor like odor.	Complies
Miscibility in ethanol:	1,2 volumes of alcohol 80 %	Complies
Specific Gravity:	0.907 to 0.920 @ 20°C	0.9115
Refractive Index:	1.4640 to 1.4700 @ 20°C	1.4659
Optical Rotation:	-2° to +5°	+0.55°
1,8-cineole:	38 – 55 %	45.8
α -pinene:	9 – 14 %	12.2
Camphor:	5 – 15 %	9.9
Camphene:	2.5 – 6.0 %	4.5

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