

**CERTIFICATE OF ANALYSIS****Product:** Rosemary Essential Oil – ct Cineole (Morocco)**Lot No.:** 11288A11020**Best Before:** October, 2022

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

| <b><u>Properties</u></b> | <b><u>Specifications</u></b>                 | <b><u>Results</u></b> |
|--------------------------|--|-----------------------|
| <b>Appearance:</b>       | Colorless to pale yellow to greenish liquid. | Complies              |
| <b>Odor:</b>             | Characteristic camphoraceous odor.           | Complies              |
| <b>Solubility:</b>       | Soluble in alcohol, Insoluble in water.      | Complies              |
| <b>Specific Gravity:</b> | 0.907 to 0.920 @ 20°C                        | 0.9109                |
| <b>Refractive Index:</b> | 1.464 to 1.472 @ 20°C                        | 1.4658                |
| <b>Optical Rotation:</b> | -2° to +5° @ 20°C                            | +0.56°                |
| <b>1,8-cineole:</b>      | 40 – 53 %                                    | 46.55                 |
| <b>α-pinene:</b>         | 8 – 14 %                                     | Complies              |
| <b>Camphene:</b>         | 6 – 14 %                                     | Complies              |
| <b>Limonene:</b>         | 1.5 – 3.5 %                                  | 2.5                   |

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**CERTIFICATE OF ANALYSIS****Product:** Rosemary Essential Oil – ct Cineole (Morocco)**Lot No.:** 11288A10320**Best Before:** March, 2022

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

| <b><u>Properties</u></b> | <b><u>Specifications</u></b>                 | <b><u>Results</u></b> |
|--------------------------|--|-----------------------|
| <b>Appearance:</b>       | Colorless to pale yellow to greenish liquid. | Complies              |
| <b>Odor:</b>             | Characteristic camphoraceous odor.           | Complies              |
| <b>Solubility:</b>       | Soluble in alcohol, Insoluble in water.      | Complies              |
| <b>Specific Gravity:</b> | 0.907 to 0.920 @ 20°C                        | 0.9117                |
| <b>Refractive Index:</b> | 1.464 to 1.472 @ 20°C                        | 1.4667                |
| <b>Optical Rotation:</b> | -2° to +5° @ 20°C                            | +1.24°                |
| <b>1,8-cineole:</b>      | 40 – 53 %                                    | 46.3                  |
| <b>α-pinene:</b>         | 8 – 14 %                                     | 12.85                 |
| <b>Camphene:</b>         | 6 – 14 %                                     | Complies              |
| <b>Limonene:</b>         | 1.5 – 3.5 %                                  | 2.1                   |

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**CERTIFICATE OF ANALYSIS****Product:** Rosemary Essential Oil – ct Cineole (Morocco)**Lot No.:** 11288A10719**Best Before:** July, 2021

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

| <b><u>Properties</u></b> | <b><u>Specifications</u></b>                 | <b><u>Results</u></b> |
|--------------------------|--|-----------------------|
| <b>Appearance:</b>       | Colorless to pale yellow to greenish liquid. | Complies              |
| <b>Odor:</b>             | Characteristic camphoraceous odor.           | Complies              |
| <b>Solubility:</b>       | Soluble in alcohol, Insoluble in water.      | Complies              |
| <b>Specific Gravity:</b> | 0.907 to 0.920 @ 20°C                        | 0.9109                |
| <b>Refractive Index:</b> | 1.464 to 1.472 @ 20°C                        | 1.4658                |
| <b>Optical Rotation:</b> | -2° to +5° @ 20°C                            | +0.56°                |
| <b>1,8-cineole:</b>      | 40 – 53 %                                    | 46.55                 |
| <b>α-pinene:</b>         | 8 – 14 %                                     | Complies              |
| <b>Camphene:</b>         | 6 – 14 %                                     | Complies              |
| <b>Limonene:</b>         | 1.5 – 3.5 %                                  | 2.5                   |

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### CERTIFICATE OF ANALYSIS

**Product:** Rosemary Essential Oil – ct Cineole (Morocco)  
**Lot No.:** 11288A201, 11288B201, 11288C201, 11288D201, 11288E201,  
 11288F201  
**Best Before:** May, 2021  
 Store in air tight containers; in a cool dry area; away from direct sunlight.

| <u>Properties</u>        | <u>Specifications</u>                        | <u>Results</u> |
|--------------------------|--|----------------|
| <b>Appearance:</b>       | Colorless to pale yellow to greenish liquid. | Complies       |
| <b>Odor:</b>             | Characteristic camphoraceous odor.           | Complies       |
| <b>Solubility:</b>       | Soluble in alcohol, Insoluble in water.      | Complies       |
| <b>Specific Gravity:</b> | 0.907 to 0.920 @ 20°C                        | 0.9070         |
| <b>Refractive Index:</b> | 1.464 to 1.472 @ 20°C                        | 1.4660         |
| <b>Optical Rotation:</b> | -2° to +5° @ 20°C                            | Complies       |
| <b>1,8-cineole:</b>      | 40 – 53 %                                    | Complies       |
| <b>α-pinene:</b>         | 8 – 14 %                                     | Complies       |
| <b>Camphene:</b>         | 6 – 14 %                                     | Complies       |
| <b>Limonene:</b>         | 1.5 – 3.5 %                                  | Complies       |

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### CERTIFICATE OF ANALYSIS

**Product:** Rosemary Essential Oil – ct Cineole (Morocco)

**Lot No.:** 11288A191

**Best Before:** February, 2021

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

| <u>Properties</u>        | <u>Specifications</u>                        | <u>Results</u> |
|--------------------------|--|----------------|
| <b>Appearance:</b>       | Colorless to pale yellow to greenish liquid. | Complies       |
| <b>Odor:</b>             | Characteristic camphoraceous odor.           | Complies       |
| <b>Solubility:</b>       | Soluble in alcohol, Insoluble in water.      | Complies       |
| <b>Specific Gravity:</b> | 0.907 to 0.920 @ 20°C                        | 0.914          |
| <b>Refractive Index:</b> | 1.464 to 1.472 @ 20°C                        | 1.4660         |
| <b>Optical Rotation:</b> | -2° to +5° @ 20°C                            | Complies       |
| <b>1,8-cineole:</b>      | 40 – 53 %                                    | Complies       |
| <b>α-pinene:</b>         | 8 – 14 %                                     | Complies       |
| <b>Camphene:</b>         | 6 – 14 %                                     | Complies       |
| <b>Limonene:</b>         | 1.5 – 3.5 %                                  | Complies       |

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