

## CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053A10319

Best Before: March, 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:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.9110         |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | +2.320°        |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4614         |
| Cineole:                   | ≥ 80.0 %                         | 80.02          |

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## CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053A561

Best Before: March, 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:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.913          |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | Complies       |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4608         |
| Cineole:                   | ≥ 80.0 %                         | Complies       |

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CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053A541

Best Before: March, 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:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.913          |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | Complies       |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4612         |
| Cineole:                   | ≥ 80.0 %                         | Complies       |

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## CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053 - A56

Best Before: July, 2020

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

| <u>Properties</u>          | <u>Specifications</u>            | <u>Results</u> |
|----------------------------|----------------------------------|----------------|
| Appearance:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.9111         |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | +2.590°        |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4611         |
| Cineole:                   | ≥ 80.0 %                         | 80.19          |

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CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053A551

Best Before: July, 2020

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

| <u>Properties</u>          | <u>Specifications</u>            | <u>Results</u> |
|----------------------------|----------------------------------|----------------|
| Appearance:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | Complies       |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | Complies       |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4608         |
| Cineole:                   | ≥ 80.0 %                         | Complies       |

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CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053 - A54

Best Before: April, 2020

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

| <u>Properties</u>          | <u>Specifications</u>            | <u>Results</u> |
|----------------------------|----------------------------------|----------------|
| Appearance:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.9114         |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | Complies       |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4601         |
| Cineole:                   | ≥ 80.0 %                         | 80.344         |

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## CERTIFICATE OF ANALYSIS

**Product:** Eucalyptus Globulus 80/85% Essential Oil  
**Lot No.:** 11053 – A53,B53,C53,D53,E53,F53,G53,H53,I53,J53  
**Best Before:** March, 2020  
 Store in air tight containers; in a cool dry area; away from direct sunlight.

| <u>Properties</u>          | <u>Specifications</u>            | <u>Results</u> |
|----------------------------|----------------------------------|----------------|
| Appearance:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.9105         |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | +2.48°         |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4602         |
| Cineole:                   | ≥ 80.0 %                         | 80.067         |

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## CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053 – A52

Best Before: August, 2019

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

| <u>Properties</u>          | <u>Specifications</u>            | <u>Results</u> |
|----------------------------|----------------------------------|----------------|
| Appearance:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.9119         |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | +2.22°         |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4612         |
| Cineole:                   | ≥ 80.0 %                         | 80.20          |
| α-Pinene:                  | 0.05 – 10.0%                     | 2.51           |
| β-Pinene:                  | 0.5 – 1.5%                       | 0.77           |

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## CERTIFICATE OF ANALYSIS

Product: Eucalyptus Globulus 80/85% Essential Oil

Lot No.: 11053-A51

Best Before: June, 2019

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

| <u>Properties</u>          | <u>Specifications</u>            | <u>Results</u> |
|----------------------------|----------------------------------|----------------|
| Appearance:                | Colorless to pale yellow liquid. | Complies       |
| Odor:                      | Odor reminiscent of 1,8-cineole. | Complies       |
| Solubility in 70% ethanol: | 1ml : 5ml gives a clear liquid.  | Complies       |
| Specific Gravity:          | 0.905 to 0.927 @ 20°C            | 0.9111         |
| Optical Rotation:          | 0.0° to +10.0° @ 20°C            | +2.73°         |
| Refractive Index:          | 1.458 to 1.4650 @ 20°C           | 1.4612         |
| Cineole:                   | ≥ 80.0 %                         | 80.18          |
| α-Pinene:                  | 0.05 – 10.0%                     | 2.71           |
| β-Pinene:                  | 0.5 – 1.5%                       | 0.41           |

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