

## CERTIFICATE OF ANALYSIS

Product: Helichrysum Essential Oil (Slovenia)

Lot No.: 11068A00119

Best Before: September, 2023

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 to reddish yellow liquid.	Complies
Odor:	Characteristic aromatic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 to 0.899 @ 20°C	0.8856
Optical Rotation:	-8.0° to +9.0° @ 20°C	+2.3°
Refractive Index:	1.475 to 1.485 @ 20°C	1.4790
$\alpha$ - Pinene:	15.5 - 37.0 %	24.4%
$\gamma$ - Curcumene:	-----	20.0%
$\beta$ - Selinene	-----	6.80%
$\alpha$ - Selinene	1 - 10 %	4.60%
Neryl acetate:	2.0 - 23.5 %	6.20%

### Disclaimer & Caution

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## CERTIFICATE OF ANALYSIS

Product: Helichrysum Essential Oil (Slovenia)

Lot No.: 11068-A26,B26

Best Before: July, 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 to reddish yellow liquid.	Complies
Odor:	Characteristic aromatic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 to 0.899 @ 20°C	0.890
Optical Rotation:	-10.0° to +2.0° @ 20°C	+2.0°
Refractive Index:	1.475 to 1.485 @ 20°C	1.480
$\alpha$ - Pinene:	-----	27.96%
$\gamma$ - Curcumene:	-----	16.82%
$\beta$ - Selinene	-----	7.50%
$\alpha$ - Selinene	-----	4.45%
Neryl acetate:	-----	5.96%

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## CERTIFICATE OF ANALYSIS

Product: Helichrysum Essential Oil (Slovenia)

Lot No.: 11068-A25

Best Before: July, 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 to reddish yellow liquid.	Complies
Odor:	Characteristic aromatic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 to 0.899 @ 20°C	Complies
Optical Rotation:	-10.0° to +2.0° @ 20°C	Complies
Refractive Index:	1.475 to 1.485 @ 20°C	Complies
$\alpha$ - Pinene:	-----	26.8%
$\gamma$ - Curcumene:	-----	20.1%
$\beta$ - Selinene	-----	5.9%
$\alpha$ - Selinene	-----	4.1%
Neryl acetate:	-----	4.8%

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## CERTIFICATE OF ANALYSIS

Product: Helichrysum Essential Oil (Slovenia)

Lot No.: 11068-A24

Best Before: October, 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:	Pale yellow to reddish yellow liquid.	Complies
Odor:	Characteristic aromatic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 to 0.899 @ 20°C	0.880
Optical Rotation:	-10.0° to +2.0° @ 20°C	Complies
Refractive Index:	1.475 to 1.485 @ 20°C	1.475
$\alpha$ - Pinene:	-----	23.91%
$\gamma$ - Curcumene:	-----	18.93%
$\beta$ - Selinene	-----	8.54%
$\alpha$ - Selinene	-----	4.27%
Neryl acetate:	-----	5.29%

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## CERTIFICATE OF ANALYSIS

Product: Helichrysum Essential Oil (Slovenia)

Lot No.: 11068-A23

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:	Pale yellow to reddish yellow liquid.	Complies
Odor:	Characteristic aromatic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 to 0.899 @ 20°C	Complies
Optical Rotation:	-10.0° to +2.0° @ 20°C	Complies
Refractive Index:	1.475 to 1.485 @ 20°C	Complies
$\alpha$ - Pinene:	-----	23.91%
$\gamma$ - Curcumene:	-----	18.93%
$\beta$ - Selinene	-----	8.54%
$\alpha$ - Selinene	-----	4.27%
Neryl acetate:	-----	5.29%

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## CERTIFICATE OF ANALYSIS

Product: Helichrysum Essential Oil (Slovenia)

Lot No.: 11068-A22

Best Before: November, 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:	Pale yellow to reddish yellow liquid.	Complies
Odor:	Characteristic aromatic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 to 0.899 @ 20°C	0.882
Optical Rotation:	-10.0° to +2.0° @ 20°C	+2.0°
Refractive Index:	1.475 to 1.485 @ 20°C	1.4782
$\gamma$ -Curcumene + $\beta$ Selinene:	-----	21.7%
$\alpha$ -Selinene + Italdione II:	-----	1.8%
Italdione I:	-----	2.7%
Italdione III:	-----	0.8%
Neryl acetate:	-----	9.2%

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