

## CERTIFICATE OF ANALYSIS

Product: Helichrysum (Africa) Essential Oil

Lot No.: 11218A10519

Best Before: January, 2024

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9088
Refractive Index:	1.440 to 1.550 @ 20°C	1.4963
Optical Rotation:	-25° to 0° @ 20°C	-12.75°
Beta Pinene:	3.00 - 10.40 %	6.096
Delta Cadinene:	8.02 - 20.19 %	13.457
Beta Phellandrene:	6.50 - 23.85 %	12.904

### Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Helichrysum (Africa) Essential Oil

Lot No.: 11218-A30

Best Before: September, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9078
Refractive Index:	1.440 to 1.550 @ 20°C	1.4964
Optical Rotation:	-25° to 0° @ 20°C	-11.19
Beta Pinene:	4.61 - 10.40 %	6.184
Delta Cadinene:	8.02 - 20.19 %	13.016
Beta Phellandrene:	11.50 - 23.85 %	15.642

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## CERTIFICATE OF ANALYSIS

**Product:** Helichrysum (Africa) Essential Oil

**Lot No.:** 11218-A29

**Best Before:** August, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9067
Refractive Index:	1.440 to 1.550 @ 20°C	1.4972
Optical Rotation:	-25° to 0° @ 20°C	-10.77°
Beta Pinene:	4.61 - 10.40 %	6.842
Delta Cadinene:	8.02 - 20.19 %	13.482
Beta Phellandrene:	11.50 - 23.85 %	14.051

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CERTIFICATE OF ANALYSIS

Product: Helichrysum (Africa) Essential Oil

Lot No.: 11218-A28

Best Before: June, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9886
Refractive Index:	1.440 to 1.550 @ 20°C	1.4944
Optical Rotation:	-25° to 0° @ 20°C	-8.62°
Beta Pinene:	4.61 - 10.40 %	8.650
Delta Cadinene:	8.02 - 20.19 %	12.024
Beta Phellandrene:	11.50 - 23.85 %	19.30

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CERTIFICATE OF ANALYSIS

Product: Helichrysum (Africa) Essential Oil

Lot No.: 11218-A27

Best Before: April, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9067
Refractive Index:	1.440 to 1.550 @ 20°C	1.4972
Optical Rotation:	-25° to 0° @ 20°C	-10.77°
Beta Pinene:	4.61 - 10.40 %	6.842
Delta Cadinene:	8.02 - 20.19 %	13.482
Beta Phellandrene:	11.50 - 23.85 %	14.051

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CERTIFICATE OF ANALYSIS

Product: Helichrysum (Africa) Essential Oil

Lot No.: 11218-A26,B26

Best Before: September, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9185
Refractive Index:	1.440 to 1.550 @ 20°C	1.4974
Optical Rotation:	- 25 <sup>o</sup> to 0 <sup>o</sup> @ 20°C	-11.40 <sup>o</sup>
Beta Pinene:	4.61 - 10.40 %	5.276
Delta Cadinene:	8.02 - 20.19 %	13.871
Beta Phellandrene:	11.50 - 23.85 %	14.051

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## CERTIFICATE OF ANALYSIS

**Product:** Helichrysum (Africa) Essential Oil  
**Lot No.:** 11218-A25  
**Best Before:** September, 2022  
 Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9185
Refractive Index:	1.440 to 1.550 @ 20°C	1.4974
Optical Rotation:	-25° to 0° @ 20°C	-11.40°
Beta Pinene:	4.61 - 10.40 %	5.155
Delta Cadinene:	8.02 - 20.19 %	13.881
Beta Phellandrene:	13.97 - 23.85 %	17.806

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## CERTIFICATE OF ANALYSIS

Product: Helichrysum (Africa) Essential Oil

Lot No.: 11218-A24,B24

Best Before: June, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 to 0.950 @ 20°C	0.9008
Refractive Index:	1.440 to 1.550 @ 20°C	1.4949
Optical Rotation:	-25° to 0° @ 20°C	-12.39°
Beta Pinene:	-----	10.398 %
Delta Cadinene:	-----	9.858 %
Beta Phellandrene:	-----	21.980 %

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## CERTIFICATE OF ANALYSIS

**Product:** Helichrysum (Africa) Essential Oil

**Lot No.:** 11218-A23

**Best Before:** June, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear yellow to greenish liquid.	Complies
Odor:	Herbal sweet aroma.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.845 to 0.950 @ 20°C	0.880
Refractive Index:	1.440 to 1.550 @ 20°C	1.4921
Optical Rotation:	- 25° to 0° @ 20°C	-6.8°
Beta Pinene:	-----	12.21 %
Limonene & 1,8Cineole:	-----	25.93 %
Delta Cadinene:	-----	9.07 %

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