

**CERTIFICATE OF ANALYSIS**

Version: 10-Jan-20

1) GENERAL INFORMATION

Name: EAU DE FLEUR D'ORANGER EGYPTE 100% ORGANIC-DEMETER
Sample code: D22.004-EDF | HF-5047/8-604 (EU/NOP-DEM) | 9-Mar-23
Botanical source: *Citrus aurantium* L. var. *amara*
Status: Organic EC834/2007, EC889/2008 & 100% Organic USDA-NOP "Final Rule" / COSMEBIO approved, BIODYNAMIC-DEMETER | EG-BIO-140
Dietary certification(s): Halal certified / Kosher certified
Production date: 09-Mar-23
Best before date: 08-Mar-25

2) PHYSICAL PROPERTIES

| Test | Analysis method | Result |
|--------------------------|-------------------------------------|--|
| 1 Physical state | Visual inspection | Watery with milky hue, liquid. |
| 2 Odour | Manual | Very diluted sweet, floral, misty, reminiscent of bitter orange odour. |
| 3 Solubility in water | Manual | Soluble |
| 4 Solubility in alcohol | Manual | Soluble |
| 5 Liposolubility | Manual | Insoluble |
| 6 Specific gravity @20°C | Densimeter 30PX (Mettler-Toledo) | ~1 |
| 7 Refractive index @20°C | Refractometer 30GS (Mettler Toledo) | 1.344 |
| 8 Optical rotation @20°C | Kruss P1000-LED | n/a |
| 9 Flash point | Closed cup | n/a |

3) CHROMATOGRAPHIC VALUES OF THE VOLATILE COMPONENTS OF THE HYDROLATE**ABSOLUTE OBTAINED BY MEANS OF HEXANE EXTRACTION AND FURTHER ETHANOL WASH:**

| Components | % | Allergen % | Components | % | Allergen % |
|----------------------|-------|------------|-------------------------|------|------------|
| 1 Limonene | 0.07 | 0.07 | 9 Neral * | 0.22 | 0.22 |
| 2 Linalool oxide (Z) | 4.20 | | 10 Geraniol | 7.60 | 7.60 |
| 3 Linalool oxid (E) | 2.60 | | 11 Geranial * | 0.22 | 0.22 |
| 4 Benzyl alcohol | 0.26 | 0.26 | 12 Farnesol | 0.30 | 0.30 |
| 5 Linalool | 44.20 | 44.20 | 13 Phenyl ethyl alcohol | 2.55 | |
| 6 Terpinene-1,ol-4 | 2.70 | | 14 Phenyl acetonitrile | 3.65 | |
| 7 Citronellol | 0.20 | 0.20 | 15 Methyl anthranilate | 4.40 | |
| 8 a-Terpineol | 19.80 | | 16 Indol | 0.84 | |

n.d. = not detected

Total Allergen % according to European restriction (SCCNFP/0017/98 December 1999)**53.07**

Laboratory Manager

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