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*Certificate of Analysis Sheet*  
**Organic Neroli Essential Oil**  
*(Citrus aurantium var. amara)*

Batch Number: 120121-8

Origin: Egypt

**1) GENERAL INFORMATION**

Botanical source: *Citrus aurantium* L. var. *amara*  
 Status: Organic EC834/2007, EC889/2008 & 100% Organic USDA-NOP "Final Rule" /  
 COSMEBIO approved | EG-BIO-140  
 Dietary certification(s): Halal certified / Kosher certified

**2) PHYSICAL PROPERTIES**

Test	Analysis method	Result
1 Physical state	Visual inspection	Pale yellow liquid
2 Odour	Manual	Reminiscent of bitter orange blossom, fresh, sweet odour.
3 Solubility in water	Manual	Insoluble
4 Solubility in alcohol	Manual	Soluble
5 Specific gravity @20°C	Densimeter 30PX (Mettler-Toledo)	0.865
6 Refractive index @20°C	Refractometer 30GS (Mettler Toledo)	1.467
7 Optical rotation @20°C	Kruss P1000-LED	n/a
8 Flash point	Closed cup	57°C

**3) CHROMATOGRAPHIC VALUES OF THE VOLATILE COMPONENTS OF THE OIL (in %)**

*(Agilent 6890 GC-FID and/or Agilent 78904 GC/5977A MSD)*

Components	%	Allergen %
1 α-Pinene	0.45	
2 Sabinene	2.60	
3 β-Pinene	4.36	
4 Myrcene	2.29	
5 Limonene	8.22	8.22
6 β-Ocimene (Z)	0.83	
7 β-Ocimene (E)	5.30	
8 Linalool	40.24	40.24
9 Terpinene-1,ol-4	0.48	

Components	%	Allergen %
10 α-Terpineol	4.50	
11 Nerol	1.02	
12 Linalyl acetate	14.03	
13 Geraniol	3.00	3.00
14 Neryl acetate	1.33	
15 Geranyl acetate	2.65	
16 α-Humulene	0.73	
17 Nerolidol (E)	2.87	
18 Farnesol (E)	1.48	1.48

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**Total Allergen % according to European restriction (SCCNFP/0017/98) 52.94**