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Certificate of Analysis & Gas Chromatography
Organic Neroli Essential Oil
(Citrus aurantium var. amara)

Batch Number: 230920-1

Origin: Egypt

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

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	0.39	
2 Sabinene	0.85	
3 β -Pinene	4.59	
4 Myrcene	1.96	
5 Limonene	10.07	10.07
6 β -Ocimene (Z)	0.85	
7 β -Ocimene (E)	4.27	
8 Linalool	46.52	46.52
9 Terpinene-1,ol-4	0.22	

Components	%	Allergen %
10 α -Terpineol	5.31	
11 Nerol	1.16	
12 Linayl acetate	11.62	
13 Geraniol	1.60	1.60
14 Neryl acetate	1.51	
15 Geranyl acetate	2.88	
16 α -Humulene	0.74	
17 Nerolidol (E)	1.90	
18 Farnesol (E)	1.10	1.10

n.d. = not detected

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

59.29