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Certificate of Analysis & Gas Chromatography

Organic Neroli Essential Oil

(*Citrus aurantium* var. *amara*)

1) GENERAL INFORMATION

Name: **NEROLI ESSENTIAL OIL EGYPT**
Batch Number: 110718-18
Botanical source: *Citrus aurantium* L. var. *amara*
Dietary certification(s): Halal certified / Kosher certified

2) PHYSICAL PROPERTIES

1- Physical state: Pale yellow liquid
2- Odour: Reminiscent of bitter orange blossom, fresh, sweet odour.
3- Solubility in water: Insoluble
4- Solubility in alcohol: Soluble
5- Specific gravity @20°C: 0.865
6- Refractive index @20°C: 1.467
7- Optical rotation @20°C: n/a
8- Flash point: 57°C

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

Components	%	Allergen %
1- α -Pinene	0.43	
2- Sabinene	1.14	
3- β -Pinene	5.71	
4- Myrcene	1.67	
5- Limonene	15.04	15.04
6- β -Ocimene (Z)	1.34	
7- β -Ocimene (E)	2.60	
8- Linalool	40.69	40.69
9- Terpinene-1,ol-4	0.22	

Components	%	Allergen %
10- α -Terpineol	4.37	
11- Nerol	1.02	
12- Linayl acetate	12.35	
13-Geraniol	3.00	3.00
14- Neryl acetate	1.30	
15- Geranyl acetate	2.21	
16- α -Humulene	0.81	
17- Nerolidol (E)	1.25	
18- Farnesol (E)	0.54	0.54

n.d. = not detected

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

59.27