

## Certificate of Analysis

Product: Geranium Oil (Egypt)  
Botanical Name: *Pelargonium graveolens*  
Origin: Egypt  
Plant part used: Flowering plant  
Extraction method: Steam distilled

<b>Physical data</b>	<b><u>Specification<sup>2</sup></u></b>	<b><u>Result</u></b>
Appearance:	Clear free flowing liquid	Complies
Colour:	Pale Yellow to Orange/ Yellow	Complies
Odour:	Characteristic	Complies
Specific Gravity @ 20°C:	0.8820 to 0.9000	0.8961
Refractive index @ 20°C:	1.4610 to 1.4700	1.4664
Optical Rotation:	-4.00 <sup>0</sup> to -14.00 <sup>0</sup>	-10.25 <sup>0</sup>

### Chromatographic Profile

<b>Sample</b>	<b>Component</b>	<b>Specification<sup>2</sup> Peak Area<sup>1</sup> (%)</b>	<b>Result Peak Area<sup>1</sup> (%)</b>
<i>Pelargonium graveolens</i>	Linalool	2 to 10	4.61
	Menthone	Trace to 10	1.48
	Citronellol	25 to 45	32.58
	Geraniol	10 to 20	14.46
	Citronellyl formate	2 to 10	8.52