



## Certificate of Analysis

Product Name:	<b>Geranium Essential Oil</b>	Extraction Method:	<b>Steam Distilled Essential Oil</b>
Botanical Name:	<b><i>Pelargonium graveolens</i></b>	Quality:	<b>100% Pure and Natural</b>
Used Part:	<b>Leaves and Tops</b>	Batch Number:	<b>Varies</b>
CAS No.:	<b>8000-46-2; 90082-51-2</b>	Manufacture Date:	<b>Varies</b>
INCI Name:	<b>Pelargonium Graveolens (Geranium) Oil</b>	Best Before:	<b>Varies</b>

IDENTIFICATION		SPECIFICATION	STANDARDS	RESULT
<b>Physical</b>	Appearance	Pale yellow to light greenish yellow colored liquid	-	Complies
	Odour	Very fresh, lightly floral, lemony-rosy aroma	-	Complies
	Refractive Index	1.455 - 1.475   20°C	-	1.464
	Specific Gravity (g/mL)	0.860 - 0.905   20°C	-	0.893
	Optical Rotation (°)	-18° to -7°	-	Complies
	Solubility	Soluble in alcohols and fixed oils; Insoluble in water	-	Complies
<b>Chemical</b>	Lead (Pb)	< 10 ppm	-	Complies
	Arsenic (As)	< 2 ppm	-	Complies
	Mercury (Hg)	< 1 ppm	-	Complies
<b>Microbial</b>	Aerobic Mesophilic Bacterial Count	< 100 cfu/g	ISO 21149	Complies
	Yeast & Mould	< 10 cfu/g	ISO 16212	Complies
	Candida albicans	Negative	ISO 18416	Complies
	Escherichia coli	Negative	ISO 21150	Complies
	P. aeruginosa	Negative	ISO 22717	Complies
	S. aureus	Negative	ISO 22718	Complies

<b>Else</b>	Storage Condition	Keep in a tightly closed container in a cool and dry place, protected from sunlight.
	Shelf Life	When stored for more than 24 months, quality should be checked before use.

