

Natural Touch Aromatherapy

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PURITY ANALYSIS CERTIFICATE GERANIUM (YUNNAN)

BOTANICAL CLASSIFICATION *Pelargonium graveolens* is a species of the Geraniaceae family. There are over 700 varieties of cultivated geranium with *graveolens* being the main oil producing species.

GENERAL DESCRIPTION A tall perennial shrub with pointed leaves and small pink flowers. The essential oil is a quality geranium, yellow/green in colour with a sweet, rosy-lemony aroma and a dark olive green colour with a brown-yellow tinge.

ORIGIN South Africa is the centre of origin for this genus. The shrubs are grown in the high altitude Yunnan region of China. Surrounding growing areas from which the raw material is also sourced are Kunming, Yuxi, Shiping and Binchuan. The essential oil is produced from steam distillation of the leaves, stalk and flowers.

GAS LIQUID CHROMATOGRAM Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. High altitude pure Yunnan geranium is an excellent quality oil with a high natural citronellol content. The above profile closely matches independent analyses carried out by researchers in 1988 on Yunnan geranium. Yunnan Chinese geranium has a uniquely different profile to most other geraniums and this can be readily identified by GLC. Yunnan geranium is sometimes adulterated with limonene and/or linalool by middlemen to increase the bulk. Knowing that the percentages of these are normal is an important part of assessing the purity of the oil. Algerian, Egyptian, Moroccan and Reunion oils have lower citronellol (19-23%) and higher geraniol (16-19%).

COMPONENT	NATURAL TOUCH(%)	CLASSIC(%)
Geraniol	12.7	3.5 - 8
Iso menthone	6.1	5
Linalool	6.5	2 - 5
Citronellol	29.3	40

- GLC analysis carried out at the Scottish Agricultural College, Auchincruive.
- Official stamp: