

# Natural Touch Aromatherapy

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## PURITY ANALYSIS CERTIFICATE

### MANDARIN (SICILIAN)

BOTANICAL CLASSIFICATION *Citrus reticulata* (syn. *C. nobilis*) is a species of the Rutaceae family.

GENERAL DESCRIPTION A medium sized evergreen tree with fragrant flowers and fruit. The essential oil is a red-orange liquid with a subtle, sweet, mandarin scent. Mandarin is often adulterated with cheaper orange oil and mandarins with strong orange tones should be avoided.

ORIGIN Native to China and Indo-China, the fruit is now grown in Sicily and the oil was obtained by cold expression from the outer peel of ripe fruits.

GAS LIQUID CHROMATOGRAM Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. Pure mandarin is mainly made up of limonene and gamma - terpinene. Levels of limonene vary in pure mandarin oil depending on when the fruit was picked, but approx. 75% is typical of numerous pure mandarin samples analysed in independent laboratories. However certain oils can reach up to 95% limonene.

<b>COMPONENT</b>	<b>NATURAL TOUCH</b> (%)	<b>CLASSIC</b> (%)
Alpha pinene	<1	1.5 - 3
Sabinene	<1	1 - 2
Myrcene	1.9	1.6 - 6
p - cymene	<1	0.4 - 6
Limonene	95.6	70 - 95
Gamma - terpinene	15.92	11 - 20

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