



CERTIFICATE OF PURITY

TANGERINE OIL (Mediterranean)

BOTANICAL CLASSIFICATION: *Citrus reticulata* tree belongs to *Rutaceae* family

DESCRIPTION OF MANDARIN TREE: A medium sized tree, with fragrant flowers, and round fruits, which ripen from green to orange. Tangerine Essential Oil is pretty volatile. Its color is red-orange, with a sweet, gentle, fruity aroma.

ORIGIN: The trees grow in Greece, Spain and on the Island of Sicily, off Southern Italy. The oil is cold pressed from ripe tangerine fruits outer peel. Mediterranean Mandarin Essential Oil is regarded as being of highest quality.

GAS LIQUID CHROMATOGRAM: Mediterranean Mandarin essential oil is made up, of mainly limonene and γ -terpinene, with myrcene being the next major component. Other minor constituents include α -pinene, p-cymene and Sabinene. Tangerine essential oil is often adulterated with orange essential oil, which is cheaper and easier to find. Adulterated Tangerine essential Oil has much lower than 65% limonene levels.

GLC ANALYSIS COMPONENT	Mediterranean Mandarin (%)	Classic Mandarin (Indo-China) (%)
α -pinene	<1	1.5-3
Sabinene	<1	1-2
Myrcene	1.9	1.5-6
p-cymene	<1	0.4-6
Limonene	93	70-95
γ -terpinene	15	10-20

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