

# Natural Touch Aromatherapy

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## PURITY ANALYSIS CERTIFICATE

### ORANGE (SWEET)

BOTANICAL CLASSIFICATION *Citrus sinensis* is a species of the Rutaceae family.

GENERAL DESCRIPTION An evergreen fruit bearing tree, smaller than the bitter orange variety. Sweet orange pulp is less sharp than bitter orange. Sweet orange essential oil is a yellow-orange liquid with a sweet, fruity scent.

ORIGIN The essential oil is cold-pressed from the ripe, outer peels of oranges grown in the West Indies. Inferior quality sweet orange essential oil is produced by distillation from the essences recovered as a by-product of orange juice manufacture and care needs to be taken to ensure that top quality essential oil is being used.

GAS LIQUID CHROMATOGRAM Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. Sweet orange essential oil comprises mainly limonene (circa 95%). Sweet orange also contains small amounts of other monoterpene hydrocarbons (eg. myrcene), alpha terpineol, aliphatic alcohols and aldehydes such as octenal (around 1.5%) and decanal. The colour, odour and character of most citrus essential oils is determined by constituents which are present in very small percentages. Hence, purity testing of such oils is as dependent on visual, optical rotation and aromatic assessments as much as on GLC analysis.

COMPONENT	NATURAL TOUCH (%)	CLASSIC (%)
Limonene	95.1	85 – 96
Myrcene	1.8	2
Linalol	<1	< 1

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