

# Natural Touch Aromatherapy

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## PURITY ANALYSIS CERTIFICATE LIME (MEXICAN)

**BOTANICAL CLASSIFICATION** *Citrus aurantifolia* is a species of the Rutaceae family. Also known as *Citrus latifolia* and *Citrus medica*.

**GENERAL DESCRIPTION** The small green fruit of an evergreen tree with stiff, sharp spines, smooth leaves and small white flowers. The fruit is very bitter and about half the size of a lemon. The essential oil is a pale olive-green liquid with a deep, robust, appealing, citrus-lime aroma. Another similar lime species is known as *Citrus latifolia* (Persian lime).

**ORIGIN** The lime essential oil is steam distilled from the peels of unripe Mexican limes. Distilled lime oils (unlike cold pressed lime oils) are not phototoxic and oils distilled solely from the peel as opposed to the whole fruit are of a far higher quality.

**GAS LIQUID CHROMATOGRAM** Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. Mexican lime essential oil's major component is limonene with gamma terpinene, alpha terpineol and p-cymene making up around a further 25%. Other components include linalool and 1,8-cineol in much smaller percentages. Steam distilled lime essential oil from the peel does not (unlike the cold-pressed oil) contain coumarins. The non-phototoxic distilled oil is safer to use in aromatherapy.

COMPONENT	NATURAL TOUCH(%)	CLASSIC(%)
Limonene	45.9	50
Terpinolene	8.3	< 10
Gamma terpinene	12.1	0
Myrcene	1.6	< 5
Alpha terpineol	6.9	4 - 9
p-cymene	3.2	< 10
β-pinene		5-12
Geranial		<3
Neral		<1

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