

# Natural Touch Aromatherapy

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## PURITY ANALYSIS CERTIFICATE NUTMEG (INDONESIAN)

BOTANICAL CLASSIFICATION *Myristica fragrans* is a species of the Myristicaceae family.

GENERAL DESCRIPTION A sturdy evergreen tree of the wet tropics (annual rainfall of 2000 – 3500mm is necessary for high fruit yield) which can reach a height of 20 metres. The nutmegs resemble small peaches with the pale yellow oil being extracted from the kernel of the seeds.

ORIGIN A native of the Moluccas and nearby islands the trees are now cultivated in Penang, Java, Indonesia, Sri Lanka and Grenada.

GAS LIQUID CHROMATOGRAM Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. The principle constituents are mainly monoterpene hydrocarbons, 88% approx, with lesser amounts of alcohols and phenols. Indonesian nutmeg (often called East Indian) differs in oil composition from the West Indian produced in Grenada. West Indian oil has low myristicin (< 1%) and high sabinene content (30-50%). Certain regions can yield intermediate oils. The phenol myristicin in amounts under 10% distinguishes the oil from Mace, its more aggressive counterpart, where the percentage is higher.

COMPONENT	NATURAL TOUCH(%)	CLASSIC(%)
Alpha pinene	21.9	17-24
Sabinene	20.3	16-24
Beta pinene	15.3	12-18
Terpinene-4-ol	5.0	2 - 8
Myristicin	8.7	8 - 14
Methyl eugenol		0.3 - 18

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