

Natural Touch Aromatherapy

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PURITY ANALYSIS CERTIFICATE

PEPPER (BLACK , INDIAN)

BOTANICAL CLASSIFICATION *Piper nigrum* (syn. *Piper aromaticum*) is a species of the Piperaceae family. Not to be confused with cayenne pepper or paprika from the *Capsicum* species.

GENERAL DESCRIPTION A woody perennial vine with heart shaped leaves and white flowers and berries. The berries turn from red to black as they age. The essential oil is a colourless liquid with a slight blueish tint and with a warming, woody-spicy aroma, characteristic of the crushed spice.

ORIGIN The vines grow in India and the young berries are picked, dried and imported for distillation in the UK.

GAS LIQUID CHROMATOGRAM Key components of Natural Touch's essential oil type, as indicated by GLC, are compared to classic profiles below. Pure black pepper is made up of mainly monoterpenes, primarily beta caryophyllene with alpha and beta pinene (around 33% combined). In all, monoterpenes make over 70% of the oil. Other components are present only in small percentages and include oxygenated compounds such as cineol and linalool. This oil type conforms to a range of independent GLC analyses on pure black pepper essential oils.

COMPONENT	NATURAL TOUCH (%)	CLASSIC (%)
α - pinene	8.1	1 - 15
β - pinene	9.5	7 - 12
Terpinene-4-ol		1 - 3
Sabinene	9.8	7 - 20
Limonene	15.7	10 - 20
Beta caryophyllene	20.1	10 - 27
Bisabolene	<1	1 - 3

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