



CERTIFICATE OF PURITY

PEPPERMINT OIL (Mediterranean)

BOTANICAL CLASSIFICATION: *Mentha Piperita* belongs to *Lamiaceae* family. Peppermint oil is widely used as a pharmaceutical essential oil. It is also used as a flavouring agent in foods and sweets. It grows in Mediterranean countries.

DESCRIPTION OF PEPPERMINT: A small herb, with green leaves and multiple bunches of white flowers. Peppermint Essential Oil has a pale yellow color, with a distinct strong, minty scent.

ORIGIN: The herb is grown in all south Mediterranean countries. The essential oil is steam distilled, from freshly harvested flowers and leaves.

GAS LIQUID CHROMATOGRAM: Peppermint essential oil is made up of mainly Menthol, with Methone, being the next major component. Menthol is one of the best human brain activators readily available. Other minor constituents include Iso-menthone, β -caryophyllene and β -pinene. Adulterated Peppermint Oil usually has a lower β -caryophyllene content, less than 3% and a higher Limonene content, typically more than 2%.

GLC ANALYSIS COMPONENT	Peppermint Oil (%)	Classic Peppermint Oil (USA) (%)
Menthone	25.9	17-31
Menthol	36.2	30-45
Iso-menthone	8.0	3-8
β -caryophyllene	5.7	2-5
β -pinene	1.5	2
1,8 cineol	0.2	<5
Limonene	1	<2