

## CERTIFICATE OF PURITY



### LEMON OIL (SPANISH)

**BOTANICAL CLASSIFICATION:** *Citrus limon* tree belongs to *Rutaceae* family.

**DESCRIPTION OF LEMON TREE:** A small sized, evergreen tree, with oval shaped green leaves, thorns and white fragrant flowers. Lemon Essential Oil is pale yellow-green liquid, with a strong, citrus aroma.

**ORIGIN:** The trees grow in Mediterranean countries and in Asia. The essential oil is produced from cold press of the outer part of fresh peel of Spanish lemons. Spanish Essential Oil is regarded as being of highest quality.

**GAS LIQUID CHROMATOGRAM:** Lemon essential oil is made up of mainly Limonene, with  $\beta$ -pinene which is a terpene hydrocarbon, being the next major component. Other minor constituents are  $\gamma$ -terpinene, Sabinene and  $\alpha$ -pinene. Adulterated Pine Oil has much lower than 60% combined  $\alpha$ -pinene and  $\beta$ -pinene levels and other irrelevant components show up as well during GLC analysis.

GLC ANALYSIS COMPONENT	Spanish Lemon Oil (%)	Classic Lemon Oil (Asia) (%)
Limonene	69.0	60-70
$\alpha$ -pinene	1.9	1.5-3.5
$\beta$ -pinene	11.4	6-15
Sabinene	1.7	1-2
$\gamma$ -terpinene	7.1	6-11
Myrcene	1.4	1-2