

Certificate of Analysis

Product: CITRUS LIMON PEEL OIL

Botanical Name: *Citrus limon (L.) Burman f.*

Country of Origin: Italy

PHYSICAL AND CHEMICAL PROPERTIES

TEST	RESULT	SPECIFICATION
Relative Density @ 20° C	0.853	0,8450 / 0,8580
Refractive Index @ 20° C	1.4743	1,4700 / 1,4800
Optical Rotation @ 20° C	62.003	55,0000 / 70,0000°

GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	RESULT (%)	SPECIFICATION (%)
Pinene alpha	1.97	
Pinene beta	11.46	7,00 / 18,00%
Sabinene	1.94	
Myrcene beta	1.51	
Terpinene alpha	0.17	
Limonene	66.58	59,00 / 72,00%
Phellandrene beta	0.31	
Terpinene gamma	9.54	6,00 / 11,00%
Paracymene	0.23	
Terpinolene	0.35	
Linalol	0.1	
Terpinene 1-ol-4	0.03	
Caryophyllene beta	0.19	
Terpineol alpha	0.11	
Geranial & Neral	2.52	
Neryl acetate	0.41	
Bisabolene Beta	0.67	
Geranyl acetate	0.4	