

Certification of analysis

1. Product: Lemon oil

Botanical Name: Citrus limonum

Plant Part used: Fruit peel

Extraction: Cold pressed

Parameter Specification1 Result

Appearance: Clear mobile liquid Complies

Odour: Characteristic: Characteristic Complies

Colour: Pale yellow to deep yellow Complies

Physio- Physio-chemical propertie

propertie chemical properties

Specific Gravity at 20 ° C: 0.8300 to 0.8850 Conforms

Refractive index at 20 ° C 1.4650 to 1.4800 Conforms

Optical Rotation: +55.00 to 75.00 Conforms Chromatographic Profile

Chromatographic Profile

Sample : Citrus limonum

a-Pinene Trace to 5% Result:2.42

B-Pinene 5 to 18 Result:10.57

d-Limonene 60 to 80 Result: 62.73

g-Terpinene 2 to 15 Result: 4.20

Neral + Geranial Trace to 5 Result: 2.55

Note(1)Analytical conditions:GC Colume:Rxi-5SI 1 MS, Length:30.0m, Inside Diameter:0.25mm,

Thickness:0.25

Mass Spectrometer: Detector Type:Quadrupole Ms, Ion Source:EI, Ion Source Temp:200.0C

Oven Temp Program:Rate:5.0Temperature(Degree):50.0-270.0

Helen Gollan

Quality Assurance Manager

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