

Certification of analysis

1. PRODUCT IDENTIFICATION AND COMPOSITION

1.1 Product Name: Pine Scotch

1.2 Botanical Name: Pinus sylvestris

TEST SPECIFICATION RESULT

2. PHYSICAL AND CHEMICAL PROPERTIES

2.1 Appearance: Clear, mobile liquid Conforms

2.2 Odour: Pleasant woody with balsamic undertone Conforms

2.3 Specific Gravity: 0.8570 to 0.8850 @ 20° C Conforms

2.4 Refractive Index: 1.460 to 1.4800 @ 20° C Conforms

CONSTITUENT SPECIFICATION RESULT

3. GAS CHROMATOGRAPH ANALYSIS

Sample: Pinus sylvestris Result(%)

a-Pinene 28-42 36.61

b-Pinene 12-25 13.65

3-Carene 10-20 11.51

d-Limonene 10-20 18.99

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

Thickness:0.25

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

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

Yen Le

Quality Assurance Department