

Certification of analysis

1. PRODUCT IDENTIFICATION AND COMPOSITION

1.1 Product Name:Elemi oil

1.2 Botanical Name: Canarium luzonicum

1.3 Batch no.: 246866

TEST SPECIFICATION RESULT

2. PHYSICAL AND CHEMICAL PROPERTIES

2.1 Appearance: Clear, straw to pale yellow liquid Conforms

2.2 Odour: Characteristic, Conforms

2.3 Specific Gravity: 0.8400 to 0.8990 @ 20° C Conforms

2.4 Refractive Index: 1.4500 to 1.4900 @ 20° C

Conforms CONSTITUENT SPECIFICATION RESULT

3. GAS CHROMATOGRAPH ANALYSIS Result(%)

Alpha-thujene 0.18

Alpha-pinene 0.39

Sabinene 2.00

Beta-pinene 0.34

Myrcene 0.55

Alpha-phellandrene 16.96

Alpha-terpinene 0.49

p-cymene 1.42

limonene, beta-phellandrene 68.04

cis-beta-ocimene 0.12

trans-beta-ocimene 0.04

gamma-terpinene 0.22

terpinolene 0.56

trans-sabinene hydrate 0.05

terpinene-4-ol 0.19

alpha-terpineol 1.32

methyl eugenol 0.23

elemol 3.34 elemicin 1.55

guaiol 0.06

gamma-eudesmol 0.05

beta-eudesmol 0.10

alpha-eudesmol 0.07

bulnesol 0.01

cryptomeridiol 0.01

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