

Certification of analysis

1. PRODUCT IDENTIFICATION AND COMPOSITION

1.1 Product Name: Clove bud Oil

1.2 Botanical Name: Eugenia caryophyllata thunb

TEST SPECIFICATION RESULT

2. PHYSICAL AND CHEMICAL PROPERTIES

2.1 Appearance: Clear, pale yellow to brown mobile liquid Conforms

2.2 Odour: Characteristic Conforms

2.3 Specific Gravity: 1.030-1.065 @ 20° C Conforms

2.4 Refractive Index: 1.520 to 1.540 @ 20° C Conforms

CONSTITUENT SPECIFICATION RESULT

3. GAS CHROMATOGRAPH ANALYSIS

Sample: Eugenia caryophyllata thunb

Result(%)

Mythyl salicylate 0.09

Chavicol 0.16

Eugenol 81.51

Alpha-copaene 0.08

Beta-caryophyllene 4.55

Alpha-humulene 0.78

Eugenyl acetate 8.87

*ロットごとの成分表には代表的成分のみ記載あり

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