

## Certification of analysis

### 1. PRODUCT IDENTIFICATION AND COMPOSITION

1.1 Product Name: Lemongrass

1.2 Botanical Name: *Cymbopogon flexuosus* TEST SPECIFICATION RESULT

### 2. PHYSICAL AND CHEMICAL PROPERTIES

2.1 Appearance: Clear mobile liquid Conforms

2.2 Odour: Fresh Grassy Conforms

2.3 Specific Gravity: 0.8725 to 0.910 @ 20° C Conforms

2.4 Refractive Index: 1.4780 to 1.4936 @ 20° C Conforms

CONSTITUENT SPECIFICATION RESULT

### 3. GAS CHROMATOGRAPH ANALYSIS

*Cymbopogon flexuosus* result

Alpha-thujene 0.17

Alpha-pinene 0.26

Camphene 1.45 6-methylhept-5-en-2-one 1.18

Myrcene, dehydro-1,8-cineole 0.12

Limonene 0.37

Cis-beta-ocimene 0.47

Trans-beta-ocimene 0.30

Linalool 1.16 Photocitral A 0.15

Citronellal 0.20 Cis-isocitral 0.88

Trans-isocitral 1.62

Alpha-terpineol 0.12

Nerol 0.18

Neral 33.57

Geraniol 5.19

Geranial 43.06

Neryl acetate 0.08

Geranyl acetate 2.16

Beta-caryophyllene 1.53

Gamma-cadinene 1.16

Delta-cadinene 0.25

Caryophyllene oxide 0.25

Note(1)Analytical conditions:GC Colume: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