

**Certificate of Analysis**

Product: **May Chang**

Code: EOMAYBULK

Botanical Name: *Litsea Cubeba*

<u>Parameter</u>	<u>Specification<sup>1</sup></u>	<u>Result</u>
Appearance:	Clear, free flowing liquid	Complies
Colour:	Pale straw to deep yellow	Complies
Odour:	Fresh lemon, citral	Complies

**Physio-chemical properties**

Specific Gravity @ 20° C:	0.8800 – 0.8960	0.8873
Refractive Index @ 20° C:	1.4800 – 1.4890	1.4848
Optical Rotation:	+ 0.00° to + 20.00°	+10.35°

**Chromatographic Profile**

Sample	Component	Specification <sup>2</sup> (Peak Area <sup>1</sup> (%))	Result (Peak Area (%))
<i>Litsea Cubeba</i>	Neral + geranial	Min 60	71.29

Note (1) Analytical conditions: GC Column: Rxi-5SilMS, Length: 30.0m, Inside Diameter: 0.25mm, Thickness: 0.25µm  
Mass Spectrometer: Detector Type: Quadrupole MS, Ion Source: EI, Ion Source Temp: 200.0°C  
Oven Temp. Program(°C): 50.0 to 270.0,Temp Rate: 5.0

NOTE (2) Version (09/06/2011) Doc#113

Helen Gollan  
 Quality Assurance Manager  
 01/05/2012

Computer generated, released without signature