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Certificate of Analysis: Niaouli Essential Oil, *Melaleuca quinquenervia*, Australia.

Batch No: AU-MQC-040

Date of Manufacture: 6 February 2013

Expiry Date: 6 February 2016

Method: Area Normalisation Based on ISO 7609:1985

Sample: Oil of *Melaleuca quinquenervia* (Cav.) S.T. Blake, 1,8-Cineole Chemotype – “Niaouli”

No.	COMPONENT	%
1	alpha-pinene	8.5
2	beta-pinene	3.1
3	myrcene	0.2
4	alpha-terpinene	0.1
5	para-cymene	1.9
6	limonene	5.5
7	1,8-cineole	57.9
8	gamma-terpinene	0.7
9	terpinolene	0.2
11	linalool	5.8
12	terpinen-4-ol	1.1
13	alpha-terpineol	9.4
14	beta-caryophyllene	1.6
15	viridiflorene	0.3
16	delta-cadinene	trace
17	globulol	0.3
18	viridiflorol	1.6

Instrument: Varian 3700 Gas Chromatograph linked to Varian Star 5.31 Chromatography Workstation
Column: Hewlett Packard HP-5MS, 30m * 0.25mm * 0.25mcm
Carrier Gas: Hydrogen @ 100kPa
Injection Port: Nominal Split 1:50 @ 250°C
Injector Temperature: 2500C
Detector: FID
Detector Temperature: 300°C
Temperature Program: 50°C (hold 2 minutes), 50-300°C @ 4°C/minute (hold 1 minute)
Integration: Area Normalisation % of Total FID Response

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