

Main Camp Natural Extracts Pty Ltd

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CERTIFICATE OF ANALYSIS

SAMPLE: Tea Tree Oil
CUSTOMER: Main Camp Natural Extracts Pty Ltd
LOT BATCH NUMBER: MC3E16
CERTIFICATION DATE: 30th May 2018

TEST	SPECIFICATION Ph.Eur.1837	RESULTS	TEST METHOD
	Area %		
α -pinene	1.0 - 6.0	2.36	MC-TM101*
sabinene	≤ 3.5	0.27	
α -terpinene	5.0 - 13.0	11.91	
p-cymene	0.5 - 12.0	2.09	
limonene	0.5 - 4.0	0.84	
1,8-cineole	≤ 15.0	2.19	
γ -terpinene	10.0 - 28.0	22.06	
α -terpinolene	1.5 - 5.0	3.98	
terpinen-4-ol	≥ 30.0	40.72	
α -terpineol	1.5 - 8.0	3.51	
aromadendrene	≤ 7.0	0.91	

* Modified to 50m, SGE BPX-50 column and MS detection.

GAS CHROMATOGRAPHY CONDITIONS

Analytical Instrumentation: Agilent 6890 GC + Agilent 5890 MSD
Column: SGE BPX30, 30m x 0.25mm x 25 μ m
Injector Temperature: 240 °C
Carrier Gas: Helium 1.2mL/min
Oven Program: 50°C for 5min, 4 °C \rightarrow 240 °C
Quantitation: Area Normalisation % of Total MS response.
Mass Spectrometry Detector: 230 °C, Mass Range 30 \rightarrow 350, Oil components are identified by a combination of retention times and mass spectra libraries (Adams, Wileys and NIST)

Aaron Pollack