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## *Certificate of Analysis & Gas Chromatography* **Organic Tea Tree Essential Oil (*Melaleuca alternifolia*)**

Origin: South Africa  
 Batch Number: 161118-1

Manufacture Date: Jan 2018  
 Expiry Date: Jan 2020  
 Issue Date: 15/11/18

Analysis Description	Minimum Value	Maximum Value	Result	Compliance
Appearance			Clear mobile liquid	Pass
Colour			Colourless to yellow	Pass
Odour			Spicy, earthy, myristic	Pass
Specific Gravity at 20°C	0.882	0.906	0.895	Pass
Refractive Index at 20°C	1.475	1.482	1.479	Pass
Terpinen - 4 - ol (%)	38		38.082	Pass
Optical Rotation @ 20 Degrees C	5	15	8.89	Pass

Tr	Composés	% Fid
11.99	Alpha-Thujène	0.840
12.29	Alpha-Pinène	2.324
13.73	Sabinène	0.311
13.93	Béta-Pinène	0.683
14.28	Myrcène	0.758
14.94	Alpha-Phellandréne	0.515
15.38	Alpha-Terpinène	10.038
15.61	Para-Cymène	1.036
15.78	Limonène	0.850
15.86	Béta-Phellandréne	0.879
15.91	Eucalyptol	2.967
16.85	Gamma-Terpinène	20.584
17.71	Terpinolène	4.361
17.85	Para-Cyménène	0.024
18.13	Linalol	0.056
19.03	Cis-Para-Menth-2ène-1-ol	0.208
19.64	Trans-Pinocarvéol	0.152
21.01	Terpinène-4-ol	38.082
21.32	Alpha-Terpinéol	2.458
25.21	Bicycloéléminène	0.237

Tr	Composés	% Fid
26.31	Acétate de Géranyle	0.094
26.45	Alpha-Copaène	0.251
26.78	Béta-Éléminène	0.057
27.33	Alpha-Gurgunène	0.521
27.69	Béta-Caryophyllène	0.694
28.19	Aromadendréne	1.927
28.28	Alpha-Guaiène	0.057
28.35	Cis-Muurola-3,5-Diène	0.217
28.63	Alpha-Humulène	0.149
28.74	Allo-Aromadendréne	0.770
28.98	Trans-Cadina-1(6)-4-Diène	0.481
29.03	Gamma-Muurolène	0.137
29.36	Delta-Sélinène	0.167
29.50	Viridiflorène	1.517
29.63	Bicyclogermacrène	1.379
30.02	Gamma-Cadinène	0.024
30.11	Delta-Cadinène	1.484
30.26	Zonarène	0.431
30.49	Trans-Cadina-1,4-Diène	0.257
31.66	Spathuléol	0.044

Shelf life of this product depends very much on storage conditions, particularly temperature and exposure to light and air.

Expiry date must be considered as subjective; the expiry date given here is based on the best of our knowledge and experience of the material when stored under recommended conditions in original unopened containers.

Due to the natural ingredients contained in many of our products, there may be a slight batch to batch variation in the colour, odour or consistency. However, we ensure that this does not affect the quality and efficacy of the products in any way.

We hereby certify that the above material meets the required specification and is released for free sale.

This is a computer-generated document. No signature is required.