

# CERTIFICATE OF ANALYSIS

PRODUCT NAME: TEA TREE OIL (AUSTRALIA) - ORGANIC ACO  
COUNTRY OF ORIGIN: AUSTRALIA  
BOTANICAL NAME: *Melaleuca alternifolia*

TEST (UNIT)	SPECIFICATION	RESULT
APPEARANCE	MOBILE LIQUID	MOBILE LIQUID
COLOUR	COLOURLESS TO PALE YELLOW	COLOURLESS
CLARITY	CLEAR, NO FOREIGN MATTER	CLEAR, NO FOREIGN MATTER
ODOUR	POWERFUL, FRESH, WARM & SPICY EARTHY	CHARACTERISTIC
SPECIFIC GRAVITY @ 20°C	0.885 to 0.906	0.895
OPTICAL ROTATION @ 20°C	+5° to +15°	+10°
REFRACTIVE INDEX @ 20°C	1.475 to 1.482	1.478
<b>CHROMATOGRAPHIC PROFILE</b>		
ALPHA-PINENE (%)	1 to 6	2
SABINENE (%)	Trace to 3.5	0.4
ALPHA-TERPINENE (%)	5 to 13	10
P-CYMENE (%)	0.5 to 12	2
LIMONENE (%)	0.5 to 4	2
1,8-CINEOLE (%)	Max 15.0	1.7
GAMMA-TERPINENE (%)	10 to 28	22
TERPINOLENE (%)	1.5 to 5	4
TERPINEN-4-OL (%)	Min 30.0	41.2
ALPHA-TERPINEOL (%)	1.5 to 8	3
AROMADENDRENE (%)	Trace to 3	0.9
DELTA-CADINENE (%)	Trace to 3	1
GLOBULOL (%)	Trace to 1	0
VIRIDIFLOROL (%)	Trace to 1.5	0.0