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TROPICAL BIOESSENCE SDN. BHD.

CERTIFICATE OF ANALYSIS

Product : Eucalyptus Essential oil
Botanical name : Eucalyptus globolus Leaf Oil (Origin Australia)
Product Code : ECEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052523B
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Pale Yellow Liquid	Confirm
Odour	Characteristic	
Refractive index (25°C)	1.461	1.455 - 1.470
Specific gravity (25°C)	0.91	0.906 - 0.925
Optical Rotation	+1.4°	+1.0° - +10.0°
Solubility	Complies	Soluble in Alcohol
Heavy Metals Content		
Arsenic (mg/kg)	N.D (<0.1ppm)	BP 2013, Appendix IID, ICP-AES
Lead (mg/kg)	N.D (<0.5ppm)	BP 2013, Appendix IID, ICP-AES
Cadmium (mg/kg)	N.D (<0.1ppm)	BP 2013, Appendix IID, ICP-AES
Mercury (mg/kg)	N.D (<0.1ppm)	BP 2013, Appendix IID, ICP-AES
Microbial Content		
<i>Pseudomonas aeruginosa</i>	Absent in 1g	BP 2013, Appendix XVIB, 1
<i>Staphylococcus aureus</i>	Absent in 1g	BP 2013, Appendix XVIB, 1
<i>Total Combined Yeast and Mould</i>	ND(<10) CFU/g	BP 2013, Appendix XVIB, 2
<i>Total Aerobic Microbial Count</i>	ND(<10) CFU/g	BP 2013, Appendix XVIB, 2
Assay by GC		
Eucalptol	79.00%	70-90%
p-Cymene	3.55%	1.5-5.0%

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