



TROPICAL BIOESSENCE SDN. BHD.

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CERTIFICATE OF ANALYSIS

Product : Cypress Essential oil
Botanical name : Cupressus sempervirens Leaf Oil (Origin Spain)
Product Code : CPEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052537B
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Colourless to pale yellow	Confirm
Odour	Fresh, resinous, woody	Confirm
Refractive index (25°C)	1.47	1.468 – 1.478
Specific gravity (25°C)	0.871	0.863 – 0.885
Optical Rotation	+25.0°	15.0° - +30.0°
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		
α-Pinene	60.10%	40.0 - 65.0%
d-3-Carene	17.50%	12.0 - 25.0%
Terpinolene	2.50%	2.0 - 5.0%
Limonene	1.50%	< 3.0%

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