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**TROPICAL BIOESSENCE SDN. BHD.**

## CERTIFICATE OF ANALYSIS

Product : Cedarwood Atlas Essential oil  
Botanical name : Cedrus Atlantica Wood Oil (Origin Morocco)  
Product Code : CVEO 01  
Mfg Date : May 2025 Exp Date : May 2028 Batch No: 052534B  
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Pale yellow to light orange	Confirm
Odour	Balsamic woody	Confirm
Refractive index (25°C)	1.50	1.495 - 1.510
Specific gravity (25°C)	0.95	0.938 - 0.970
Optical Rotation	-5.0°	-52.0° - 16.0°
Solubility	Complies	Soluble in Alcohol
<b>Heavy Metals Content</b>		
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
<b>Microbial Content</b>		
<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

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