



**TROPICAL BIOESSENCE SDN. BHD.**

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## CERTIFICATE OF ANALYSIS

Product : Cajeputi Essential oil  
Botanical name : Melaluca Cajeputi  
Product Code : CJEO 01  
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052548B  
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Clear liquid, colourless to light yellow	Confirm
Odour	Characteristic	Confirm
Refractive index (25°C)	1.47	1.455 - 1.475
Specific gravity (25°C)	0.912	0.870 - 0.935
Optical Rotation	-2.3°	-4.0° - +6.0°
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
<b>Assay by GC</b>		
1,8 Cineole	47.00%	45.00 - 60.00%
Limonene	6.05%	5.00 - 10.00%
α-Pinene	3.65%	2.00 - 7.00%
β-Pinene	2.35%	2.00 - 7.00%

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