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TROPICAL BIOESSENCE SDN. BHD.

CERTIFICATE OF ANALYSIS

Product Chamomile Essential oil
Botanical name : Anthemis nobilis Flower Oil (Origin UK)
Product Code : CMEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052542
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Clear liquid pale blue to blue /green	Confirm
Odour	Characteristic	Confirm
Refractive index (25°C)	1.445	1.438 – 1.448
Specific gravity (25°C)	0.911	0.900 - 0.920
Optical Rotation	+2.5°	-1.0° - +5.0°
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		
Isobutyle angelate	30.00%	30.0 - 45.0%
Isoamyle angelate	14.53%	10.0 - 20.0%
Methyl allyle angelate	8.70%	5.0 - 12.0%
Trans-pinocarveol	6.17%	2.0 - 8.0%
Isobutyle isobutyrate	5.25%	3.0 - 8.0%
2-Methylbutyl angelate	4.00%	3.0 - 8.0%
Pinocarpone	3.79%	3.0 - 8.0%
Isoamyle isobutyrate	3.01%	1.0 - 5.0%
Isobutyle methacrylate	1.84%	1.0 - 5.0%

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