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TROPICAL BIOESSENCE SDN. BHD.

CERTIFICATE OF ANALYSIS

Product : Lavender Essential oil
Botanical name : Lavandula Angustifolia Leaf and Flower Oil (Origin France)
Product Code : LVEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052527B
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Colourless to Pale Yellow	Confirm
Odour	Floral, herbal	
Refractive index (25°C)	1.46	1.456 - 1.466
Specific gravity (25°C)	0.879	0.874 - 0.884
Optical Rotation	-5.3°	-10.0° - 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		
Limonene	0.10%	<1.0 %
Cineole	0.20%	<2.5%
3-Octanone	0.30%	0.1 - 2.5%
Camphor	0.70%	< 1.2%
Linalol	40.70%	20.0 - 45.0%
Linalyl Acetate	37.60%	25.0 - 46.0%
Terpinen-4-ol	2.70%	0.1 - 6.0%
Lavandulyl Acetate	0.30%	> 0.2%%
Lavandulol	0.20%	> 0.1%
Alpha-Terpineol	0.10%	< 2%

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