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TROPICAL BIOESSENCE SDN. BHD.

CERTIFICATE OF ANALYSIS

Product : Bergamot Essential oil
Botanical name : Citrus bergamia Peel (Origin Italy)
Product Code : BGEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052529B
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Green or Olive Green Liquid	Confirm
Odour	Citrus, yet fruity and sweet with warm spicy	Confirm
Refractive index (25°C)	0.8504	0.845 - 0.860
Specific gravity (25°C)	0.914	0.910 - 0.925
Optical Rotation	63.282°	60.00° - 70.00°
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	37.00%	25.0 - 40.0%
Linalyl acetate	29.50%	25.0 - 40.0%
Linalool	14.90%	10.0 - 20.0%

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