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TROPICAL BIOESSENCE SDN. BHD.

CERTIFICATE OF ANALYSIS

Product : Basil Essential oil
Botanical name : Ocimum basilicum Leaf Oil (Origin Comores)
Product Code : BSEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052540B
Method : Steam Distillation

TEST	RESULT	STANDARD
Appearance	Pale Yellow to Amber	Confirm
Odour	Sweet, anise-like, minty, smoky	Confirm
Refractive index (25°C)	1.505	1.490 - 1.530
Specific gravity (25°C)	0.94	0.900 - 0.973
Optical Rotation	-6.7°	-15.0° - +2.0°
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		
Eugenol	45.00%	35.0 - 50.0%
b-Caryophyllene	21.55%	15.0 - 25.0%
β-Elemene	7.25%	4.0 - 8.0%
α-Germacrene	6.00%	2.0 - 8.0%
Methyleugenol	1.65%	1.5 - 5.0%
Trans-α-Bergamotene	1.23%	1.0 - 3.5%

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