



No ST 519, Jalan Tunas Baru,
Seksyen 1/4, Kawasan MIEL
Masjid Tanah Phase 1,
78300 Masjid Tanah Melaka
Tel: +606-3842800, Fax: +606-3842900
email: admin@tropical bioessence.com.my

TROPICAL BIOESSENCE SDN. BHD.

CERTIFICATE OF ANALYSIS

Product : Petitgrain Essential oil
Botanical name : Citrus aurantium var. amara
Product Code : PGEO 01
Mfg Date : May 2025 Exp Date : May 2028 Batch no: 052555B
Method : Steam Distillation

Appearance : Pale yellow to amber colored liquid
Odour : Refreshing, citrus, herbaceous, lightly floral odour
Refractive index (20°C) : 1.4582
Specific gravity (20°C) : 0.8906
Optical Rotation : -3.94°
Solubility : Soluble in Alcohol and Fixed Oil, Insoluble in Water

TEST	RESULT	STANDARD
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		
Linalyl Acetate	52.49%	
Linalol	21.47%	
α-terpineol	5.50%	

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