

## CERTIFICATE OF ANALYSIS (COA)

Product Name	BETEL LEAF ESSENTIAL OIL
Botanical Name	Piper betle
CAS #	84775-81-5
EINECS #	283-910-2
INCI Name	Piper Betle Leaf Oil
Part Used	Leaves
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Top to Middle Note

PROPERTIES	SPECIFICATIONS	<u>RESULTS</u>
Appearance	Pale yellow to brownish colored liquid	CONFORMS
Odour	Phenolic, smoky-spicy odour	CONFORMS
Refractive Index	1.490 to 1.530 nD	1.514
Specific Gravity (g/mL)	0.9300 to 1.0200 g/cm <sup>3</sup>	0.972
Optical Rotation (°)	$-12^{\circ}$ to $+7^{\circ}$	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149	CONFORMS
Yeast and Mould	< 10 CFU/g	ISO 16212	CONFORMS
Candida albicans	ABSENT / 1g	ISO 18416	CONFORMS
Escherichia coli	ABSENT / 1g	ISO 21150	CONFORMS
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717	CONFORMS
Staphylococcus aureus	ABSENT / 1g	ISO 22718	CONFORMS

HEAVY METAL TESTS	<b>SPECIFICATIONS</b>	STANDARDS	<u>RESULTS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na	CONFORMS
Arsenic: As (mg/kg or ppm)	< 2 ppm	na	CONFORMS
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na	CONFORMS

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