

## CERTIFICATE OF ANALYSIS (COA)

Product Name	COSTUS ROOT ESSENTIAL OIL	
Botanical Name	Saussurea costus (synonym Saussurea lappa)	
CAS #	8023-88-9 ; 90106-55-1	
EINECS #	290-278-1	
INCI Name	Saussurea Lappa (Costus) Root Oil	
Part Used	Roots	

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Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Base Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Yellow to brownish yellow, slightly viscous liquid	CONFORMS
Odour	Tenacious, animalic odour reminiscent of old precious wood	CONFORMS
Refractive Index	1.490 - 1.570 @ 20°C	1.513
Specific Gravity (g/mL)	0.966 - 1.035 @ 20°C	0.996
Optical Rotation (°)	+3° to +30°	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

MICROBIAL ANALYSIS	SPECIFICATIONS	<u>STANDARDS</u>	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	<u>SPECIFICATIONS</u>	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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