

CERTIFICATE OF ANALYSIS (COA)

Product Name	SPIKENARD (JATAMANSI) ESSENTIAL OIL
Botanical Name	Nardostachys jatamansi
CAS #	8022-22-8 ; 90064-28-1
EINECS #	290-089-4
INCI Name	Nardostachys Jatamansi (Spikenard) Oil

Part Used	Rhizomes/ Roots
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Base Note, Excellent Fixative

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULT</u>
Appearance	Greenish yellow to amber brown colored liquid	CONFORMS
Odour	Sweet, resinous, damp earth, mellow spicy aroma	CONFORMS
Refractive Index	1.495 - 1.510 @ 20°C	1.500
Specific Gravity (g/mL)	0.940 - 0.960 @ 20°C	0.952
Optical Rotation (°)	-30° to -10°	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

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

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<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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