

TECHNICAL DATA SHEET (TDS)

Product Name	BALSAM FIR ESSENTIAL OIL
Botanical Name	Abies balsamea
CAS #	8021-28-1 ; 85085-34-3
EINECS #	285-364-0
INCI Name	Abies Balsamea Needle Oil

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Colorless to pale yellow transparent liquid
Odour	Rich, deep balsamic, evergreen aroma of freshly crushed fir needles
Refractive Index	1.470 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.867 - 0.878 @ 25°C
Optical Rotation (°)	-11° to -7°
Solubility	Soluble in alcohols and fixed oils; Insoluble in water

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

<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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