

TECHNICAL DATA SHEET (TDS)

Product Name	BEE BALM (MONARDA) ESSENTIAL OIL
Botanical Name	Monarda fistulosa
CAS #	97952-61-9
EINECS #	308-354-0
INCI Name	Monarda Fistulosa Oil

Part Used	Flowering Tops
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Top to Middle Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Colorless to pale yellow colored liquid
Odour	Slightly sweet, lemony-citrus, herbaceous, floral aroma with geranium-like notes
Refractive Index	1.460 - 1.490 @ 20°C
Specific Gravity (g/mL)	0.870 - 0.900 @ 20°C
Optical Rotation (°)	-10° to +12°
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>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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