

# CERTIFICATE OF ANALYSIS (COA)

Product Name	CLOVE BUD ESSENTIAL OIL
Botanical Name	Syzygium aromaticum (synonym Eugenia caryophyllata)
CAS #	8000-34-8 ; 84961-50-2
EINECS #	284-638-7
INCI Name	Eugenia Caryophyllus (Clove) Flower Oil

Part Used	Buds
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Middle Note

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Colorless to amber liquid.	CONFORMS
Odour	Characteristic Odor	CONFORMS
Refractive Index	1.527 and 1.535	1.5350
Specific Gravity (g/mL)	1.038 to 1.060	1.0455
Optical Rotation (°)	(-)1.5° to +3°	+2.97°
Assay by GC	Eugenol 70% - 90% Eugenol acetate > 6% b- Caryophyllene >8	Eugenol 80.50% Eugenol acetate 8.20% b- Caryophyllene 9.11%

<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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