

CERTIFICATE OF ANALYSIS (COA)

Product Name	CLOVE BUD ESSENTIAL OIL
Botanical Name	Syzygium aromaticum (synonym Eugenia caryophyllata)
Product Code	PEO1052
CAS #	8000-34-8 ; 84961-50-2
FEMA #	2323
EINECS #	284-638-7
INCI Name	Eugenia Caryophyllus (Clove) Flower Oil

Batch #	10522206
Manufacturing Date	JUNE 2022
Best Before Date	MAY 2025

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	Pale yellow to golden colored liquid	CONFORMS
Odour	Rich warm, sweet-spicy, eugenolic aroma	CONFORMS
Refractive Index	1.525 - 1.545 @ 20°C	1.535
Specific Gravity (g/mL)	1.042 - 1.070 @ 20°C	1.046
Optical Rotation (°)	-2° to 0°	CONFORMS
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

Comments	Odour quality is excellent
-----------------	----------------------------

Disclaimer & Caution: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Essentails provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the product, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Essentails, no representation or warranty - expressed or implied - is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Essentails is limited to the value of the goods and does not include any consequential loss. Essentails shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Essentails shall not be responsible for any damages resulting from the use of or reliance upon this information.

<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

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 36 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.



**CERTIFID
ORGANIC**



Disclaimer & Caution: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Essentoils provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the product, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Essentoils, no representation or warranty - expressed or implied - is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Essentoils is limited to the value of the goods and does not include any consequential loss. Essentoils shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Essentoils shall not be responsible for any damages resulting from the use of or reliance upon this information.