



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Item	Details
Product Name	Ginger Essential Oil
Botanical Name	<i>Zingiber officinale</i> Roscoe
INCI Name	Zingiber Officinale (Ginger) Root Oil
CAS Number	8007-08-7
EC Number	616-904-9
FEMA Number	2522
Country of Origin	Ivory Coast
Plant Part	Rhizomes
Extraction Method	Steam distillation
Product Type	100% pure and natural essential oil
Issue Date	17 July 2026
Recommended Retest Period	24 months from production date

ORGANOLEPTIC AND PHYSICAL ANALYSIS

Parameter	Specification	Representative Result	Status
Appearance	Clear, mobile liquid	Clear, mobile liquid	Pass
Colour	Pale yellow to yellow-brown	Golden yellow	Pass
Odour	Fresh, spicy, warm, woody and characteristic of ginger	Characteristic	Pass
Relative Density at 20 °C	0.870–0.892	0.881	Pass
Refractive Index at 20 °C	1.4750–1.5000	1.4862	Pass
Optical Rotation at 20 °C	–40.0 ° to –15.0 °	–27.6 °	Pass



Flash Point	Approximately 55–65 °C	59 °C	Pass
Solubility in Water	Insoluble	Complies	Pass
Solubility in Alcohol	Soluble or dispersible	Complies	Pass
Added Solvents or Carrier Oils	Not permitted	Not detected	Pass
Foreign Matter	Free from visible contamination	None observed	Pass

REPRESENTATIVE GC–MS COMPOSITION

Constituent	Indicative Range	Representative Result
Zingiberene	15–35%	27.40%
Beta-Sesquiphellandrene	5–20%	12.20%
Ar-Curcumene	5–15%	9.80%
Beta-Bisabolene	2–12%	7.10%
Camphene	2–12%	6.40%
Farnesene Isomers	2–12%	5.70%
Alpha-Pinene	Trace–5%	2.30%
Beta-Pinene	Trace–5%	1.90%
1,8-Cineole	Trace–5%	1.60%
Limonene	Trace–5%	1.40%
Geranial	Trace–3%	0.90%
Neral	Trace–3%	0.60%
Linalool	Trace–2%	0.35%
Geraniol	Trace–2%	0.18%
Other Naturally Occurring Constituents	Balance	Balance

PURITY DECLARATION

The material is declared to be:

- 100% pure and natural ginger essential oil.
- Steam-distilled from *Zingiber officinale* rhizomes.
- Free from intentionally added synthetic fragrance materials.
- Free from intentionally added carrier oils, diluents and solvents.
- Not tested for pharmaceutical or internal-consumption use.

CONCLUSION

THE REPRESENTATIVE MATERIAL COMPLIES WITH THE ABOVE SPECIFICATIONS

Store tightly closed in a cool, dry and well-ventilated place, protected from heat, direct sunlight and prolonged exposure to air.



The analytical results shown are representative. They must not be presented as actual batch results unless supported by batch-specific laboratory testing.

Authorised by:
Fozia Khot
Director