



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Details
Product Name	Pimento Leaf Essential Oil
Alternative Names	Allspice Leaf Oil; Pimenta Leaf Oil
Botanical Name	<i>Pimenta dioica</i> (L.) Merr.
Botanical Synonym	<i>Pimenta officinalis</i> Lindl.
INCI Name	Pimenta Dioica Leaf Oil
Botanical Family	Myrtaceae
Plant Part	Leaves
Extraction Method	Steam Distillation
Product Type	Natural Essential Oil / Natural Complex Substance
Primary CAS Number	8006-77-7
Alternative CAS Number	84929-57-7
EC Number	284-540-4
Country of Origin	Jamaica
Batch Number	PLE0-260723

ORGANOLEPTIC ANALYSIS

Test	Specification	Representative Result
Appearance	Clear mobile liquid	Conforms
Colour	Yellowish amber to dark reddish-brown	Conforms
Odour	Warm, sweet, spicy, clove-like and phenolic	Conforms
Foreign Matter	Free from visible foreign matter	Conforms

PHYSICO-CHEMICAL ANALYSIS

Test	Specification	Representative Result
Relative Density at 20 °C	1.0250–1.0555	1.0412



Refractive Index at 20 °C	1.5280–1.5380	1.5334
Optical Rotation at 20 °C	–5.0° to +5.0°	–0.8°
Acid Value	Maximum 5.0 mg KOH/g	1.7 mg KOH/g
Flash Point	Minimum 90 °C	96 °C
Solubility in Water	Practically insoluble	Conforms
Solubility in Ethanol	Soluble in alcohol	Conforms
Identification by GC/MS	Corresponds to reference profile Conforms	

Published commercial specifications report a relative density range of approximately 1.0250–1.0555 and refractive index range of 1.5280–1.5380 for Pimento Leaf Oil.

REPRESENTATIVE GC/MS PROFILE

Natural Constituent	Representative Result
Eugenol	76.4%
Chavicol	6.2%
Myrcene	4.8%
β-Caryophyllene	3.1%
Limonene	2.0%
1,8-Cineole	1.4%
Methyl Eugenol	1.2%
α-Pinene	0.6%
Other Natural Constituents	4.3%
Total	100.0%

Pimento leaf oil is characteristically rich in eugenol, with methyl eugenol and β-caryophyllene among its important secondary constituents.

QUALITY AND COMPLIANCE STATUS

Assessment	Status
Natural Essential Oil	Conforms
Professional Perfumery Grade	Conforms
Appearance and Odour	Conforms
Physico-Chemical Parameters	Conforms
GC/MS Identity	Conforms
Added Colourants	None
Added Preservatives	None
Added Antioxidants	None, unless otherwise declared
Animal-Derived Ingredients	None
Vegan Suitable	Yes



GMO Material	Not intentionally used
BSE/TSE Risk	Not applicable

STORAGE CONDITIONS

Store in the original, tightly closed container:

- At **5–20°C**
- Protected from direct sunlight
- Protected from heat and air
- In a dry, well-ventilated area
- Away from strong oxidising agents

Minimise headspace after opening to reduce oxidation.

SHELF LIFE

24 months from the manufacturing date when stored under recommended conditions.

CERTIFICATION

The representative results shown above comply with the stated product specification.

Because Pimento Leaf Essential Oil is a Natural Complex Substance, its colour, physical properties and constituent profile may vary according to origin, harvest, distillation conditions and production batch.

The original manufacturer's batch-specific Certificate of Analysis and GC/MS report shall take precedence where available.

AUTHORISED BY

Fozia Khot
Director
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