



JOHN KELLYS (LONDON) LTD

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- Essential Oils ● Aromatic Chemicals ● Oleoresins ● Fragrances ● Flavors ● Functional ingredients

CERTIFICATE OF ANALYSIS

PRODUCT: Cardomom Oil
JK LOT NUMBER: 38164
DATE OF MANUFACTURE: September 10, 2025
DATE OF EXPIRY: September 09, 2027

Manufacturing Process: Steam distillation of Elettaria Cardamomum seeds and husks.

Test	Result	Specifications
Appearance	Clear liquid	Clear liquid
Color	Pale yellow	Colorless to pale yellow
Odor	Conforms to standard	Conforms to standard

Test	Results	Specifications
Refractive Index 20°C	1.4619	1.4454 -1.4837
Relative Density D20/4	0.9220	0.9088 - 0.9494
Optical Rotation	+27.95°	+22.00° to +44.00°

Compound	Results	Specifications
1-8 Cineol	25.05 %	24.75 – 37.37 %
Linalool	3.80 %	0.99 – 5.05 %
Terpineol-4	0.77 %	0.495 – 1.515 %
Terpineol, alpha	1.99 %	0.99 – 3.03 %
Linalyl Acetate	6.28 %	1.98 – 8.08 %
Terpinyl Acetate, Alpha	41.64 %	34.65 – 45.45 %

This certificate is generated using data provided by our suppliers.

HEAVY METALS

Comply with regulations.

IRRADIATION

Product not irradiated

**STORAGE
CONDITIONS &
SHELF LIFE**

Storage conditions

Dry area, unopened containers, optimum temp.

Shelf life

24-months