



JOHN KELLYS (LONDON) LTD

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

CERTIFICATE OF ANALYSIS

PRODUCT: Clove Bud Oil Indonesian

JK LOT NUMBER/PO: JKF100

DATE OF MANUFACTURE: March 18, 2025

DATE OF EXPIRY: March 17, 2028

Parameter	Specification	Result
Appearance	Oily Liquid	Oily Liquid
Colour	Yellowish to Light brown	Yellowish Brown
Odour	Strong, spicy, clove-like odour	Conform to standard
Specific Gravity (20°C)	1.042 – 1.063	1.0575
Refractive Index (20°C)	1.528 – 1.538	1.5337
Optical Rotation	(-) 1.5 to 0 °	(-) 0.60
Eugenol Content (by GC)	Min 75.0 %	81.76 %
Eugenol Acetate (by GC)	8.0 – 15.0 %	9.11 %
Caryophyllene (by GC)	2.0 - 7.0 %	6.81 %

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