



JOHN KELLYS (LONDON) LTD

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

TECHNICAL DATA SHEET

PRODUCT: Plai Essential Oil
JK LOT NUMBER: 38165
DATE OF MANUFACTURE: April, 2025
DATE OF EXPIRY: March, 2028

Product Name	PLAI ESSENTIAL OIL
Botanical Name	Zingiber cassumunar
INCI Name	Zingiber Cassumunar Root (Plai) Oil

Part Used	Roots/Rhizomes
Extraction Method	Steam Distilled Essential Oil
Quality	100% Pure and Natural
Note Classification	Middle to Top Note

PROPERTIES	SPECIFICATIONS
Appearance	Colorless to pale yellow amber liquid
Odour	Refreshing, earthy, slightly medicinal, peppery-ginger eucalyptus aroma
Refractive Index	1.465 - 1.505 @ 20°C
Specific Gravity (g/mL)	0.880 - 0.925 @ 20°C
Solubility	Soluble in alcohols and fixed oils; Insoluble in water

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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.