



JOHN KELLYS (LONDON) LTD

Unit 18 Blackbird Industrial Estate, Blackbird Road, Leicester, Leicestershire, LE4 0ET, UK.

✉ trading@johnkellys.com ☎ (+44) 0203 930 0833 🌐 www.johnkellys.com

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

CERTIFICATE OF ANALYSIS

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

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

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance	Colorless to pale yellow amber liquid	CONFORMS
Odour	Refreshing, earthy, slightly medicinal, peppery-ginger eucalyptus aroma	CONFORMS
Refractive Index	1.465 - 1.505 @ 20°C	1.493
Specific Gravity (g/mL)	0.880 - 0.925 @ 20°C	0.897
Solubility	Soluble in alcohols and fixed oils; Insoluble in water	CONFORMS

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

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

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.