

CERTIFICATE OF ANALYSIS

Product Name	Kukui Nut Oil
INCI	Aleurites Moluccana Seed Oil
CAS#	8015-80-3
Batch #	4574704
Manufacturing Date	MARCH 2025
Best Before Date	MARCH 2027

Extraction Method	Expeller Pressed & Refined
Quality	100% Pure and Natural

PROPERTIES	SPECIFICATIONS	RESULTS
Appearance	Clear - light yellow oily liquid	CONFORMS
Odour	Almost Odourless	CONFORMS
Color Lovibond (5¼" CELL)	<30Y, <3.0R	CONFORMS
Specific Gravity @20°C	0.920 – 0.930	0.925
Refractive Index @20°C (NR)	1.470 – 1.480	1.475
Free Fatty Acid (% as Oleic)	<0.5	0.10
Peroxide Value (meq O₂/kg)	<5.0	2.00
Iodine Value (g I₂/100g)	160 - 170	161
Saponification Value	190-210	195
Unsaponifiable Matter	<1.5	0.9

FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	5.00 – 9.00	7.40
Stearic Acid	C18:0	2.00 – 5.00	4.10
Oleic Acid	C18:1	20.00 – 30.00	24.80
Linoleic Acid	C18:2	32.00 – 42.00	35.00
Oleic Acid	C18:1	20.00 – 30.00	27.60
Linoleic Acid	C18:2	<0.5	0.20

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>	<u>RESULTS</u>
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 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.