



CERTIFICATE OF ANALYSIS (COA)

Product Name	TAMANU (FORAHA) OIL
Botanical Name	Calophyllum inophyllum
Product Code	PCO4022
CAS #	241148-25-4 ; 223748-12-7
INCI Name	Calophyllum Inophyllum (Tamanu) Oil

Batch #	40222601
Manufacturing Date	JANUARY 2026
Best Before Date	DECEMBER 2027

Part Used	Nut Kernels
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Appearance	Olive green colored slightly viscous liquid	CONFORMS
Odour	Characteristic nutty, green odour	CONFORMS
Refractive Index	1.460 - 1.495 @ 20°C	1.477
Specific Gravity (g/mL)	0.910 - 0.960 @ 20°C	0.931
Saponification Value (mgKOH/g)	185 - 235	193
Peroxide Value (meq O₂/kg)	Less than 10.0	CONFORMS
Iodine Value (g I₂/100g)	80 - 120	85
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

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FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>	<u>RESULTS (%)</u>
Palmitic Acid	C16:0	10.00 – 18.50	11.10
Stearic Acid	C18:0	11.00 – 20.00	11.40
Oleic Acid	C18:1 (n-9)	36.00 – 53.00	46.30
Linoleic Acid	C18:2 (n-6)	20.00 – 38.00	30.40
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.0	0.40

<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.

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