

## **CERTIFICATE OF ANALYSIS**

|                           |                              |
|---------------------------|------------------------------|
| <b>Product Name</b>       | <b>Kukui Nut Oil</b>         |
| <b>INCI</b>               | Aleurites Moluccana Seed Oil |
| <b>CAS#</b>               | 8015-80-3                    |
| <b>Batch #</b>            | 4607605                      |
| <b>Manufacturing Date</b> | FEBRUARY 2026                |
| <b>Best Before Date</b>   | FEBRUARY 2028                |

|                          |                            |
|--------------------------|----------------------------|
| <b>Extraction Method</b> | Expeller Pressed & Refined |
| <b>Quality</b>           | 100% Pure and Natural      |

| PROPERTIES                                   | SPECIFICATIONS                   | RESULTS    |
|----------------------------------------------|----------------------------------|------------|
| <b>Appearance</b>                            | Clear - light yellow oily liquid | CONFORMS   |
| <b>Color Lovibond (5¼" CELL)</b>             | <30Y, <3.0R                      | 9.0Y, 0.8R |
| <b>Odour</b>                                 | Odourless                        | CONFORMS   |
| <b>Specific Gravity @20°C</b>                | 0.920 – 0.930                    | 0.924      |
| <b>Refractive Index @20°C (NR)</b>           | 1.470 – 1.480                    | 1.474      |
| <b>Free Fatty Acid (% as Oleic)</b>          | <0.5                             | 0.10       |
| <b>Peroxide Value (meq O<sub>2</sub>/kg)</b> | <10.0                            | 2.40       |
| <b>Iodine Value (g I<sub>2</sub>/100g)</b>   | 160 - 170                        | 161.00     |
| <b>Saponification Value</b>                  | 190-210                          | 192        |
| <b>Unsaponifiable Matter</b>                 | <1.5                             | 1.0        |

### **FATTY ACID COMPOSITION:**

| FATTY ACID           | C-CHAIN | SPECIFICATIONS (%) | RESULTS (%) |
|----------------------|---------|--------------------|-------------|
| <b>Palmitic Acid</b> | C16:0   | 5.00 – 9.00        | 7.50        |
| <b>Stearic Acid</b>  | C18:0   | 2.00 – 5.00        | 4.50        |
| <b>Oleic Acid</b>    | C18:1   | 20.00 – 30.00      | 26.10       |
| <b>Linoleic Acid</b> | C18:2   | 32.00 – 42.00      | 34.70       |
| <b>Oleic Acid</b>    | C18:1   | 20.00 – 30.00      | 26.10       |
| <b>Linoleic Acid</b> | 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> |
|-------------------------------------------|-----------------------|------------------|----------------|
| <b>Aerobic Mesophilic Bacterial Count</b> | < 100 CFU/g           | ISO 21149        | CONFORMS       |
| <b>Yeast and Mould</b>                    | < 10 CFU/g            | ISO 16212        | CONFORMS       |
| <b>Candida albicans</b>                   | ABSENT / 1g           | ISO 18416        | CONFORMS       |
| <b>Escherichia coli</b>                   | ABSENT / 1g           | ISO 21150        | CONFORMS       |
| <b>Pseudomonas aeruginosa</b>             | ABSENT / 1g           | ISO 22717        | CONFORMS       |
| <b>Staphylococcus aureus</b>              | ABSENT / 1g           | ISO 22718        | CONFORMS       |

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