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## **CERTIFICATE OF ANALYSIS (COA)**

|                       |                            |
|-----------------------|----------------------------|
| <b>Product Name</b>   | <b>BABASSU OIL</b>         |
| <b>Botanical Name</b> | Orbignya oleifera          |
| <b>Product Code</b>   | PCO4030                    |
| <b>CAS #</b>          | 91078-92-1                 |
| <b>EINECS #</b>       | 293-376-2                  |
| <b>INCI Name</b>      | Orbignya Oleifera Seed Oil |

|                           |           |
|---------------------------|-----------|
| <b>Batch #</b>            | 40302407  |
| <b>Manufacturing Date</b> | JULY 2024 |
| <b>Best Before Date</b>   | JUNE 2026 |

|                          |                       |
|--------------------------|-----------------------|
| <b>Part Used</b>         | Seeds                 |
| <b>Extraction Method</b> | Cold Pressed          |
| <b>Quality</b>           | 100% Pure and Natural |

| <b><u>PROPERTIES</u></b>                     | <b><u>SPECIFICATIONS</u></b>                                                                       | <b><u>RESULTS</u></b> |
|----------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------|
| <b>Appearance</b>                            | Light yellow colored liquid at room temperature; off white soft fat at temperatures less than 20°C | CONFORMS              |
| <b>Odour</b>                                 | Characteristic mild odour                                                                          | CONFORMS              |
| <b>Specific Gravity (g/mL)</b>               | 0.905 - 0.915 @ 20°C                                                                               | 0.910                 |
| <b>Refractive Index</b>                      | 1.450 - 1.490 @ 20°C                                                                               | 1.466                 |
| <b>Saponification Value (mgKOH/g)</b>        | 240 - 260                                                                                          | 248                   |
| <b>Peroxide Value (meq O<sub>2</sub>/kg)</b> | Less than 5.0                                                                                      | CONFORMS              |
| <b>Iodine Value (g I<sub>2</sub>/100g)</b>   | 13 - 18                                                                                            | 15                    |
| <b>Free Fatty Acids (% oleic)</b>            | Less than 1.0                                                                                      | CONFORMS              |
| <b>Solubility</b>                            | Soluble in cosmetic esters and fixed oils; Insoluble in water                                      | CONFORMS              |

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### **FATTY ACID COMPOSITION:**

| <b><u>FATTY ACID</u></b> | <b><u>C-CHAIN</u></b> | <b><u>SPECIFICATIONS (%)</u></b> | <b><u>RESULTS (%)</u></b> |
|--------------------------|-----------------------|----------------------------------|---------------------------|
| Caprylic Acid            | C8:0                  | 2.00 – 11.00                     | 5.80                      |
| Capric Acid              | C10:0                 | 1.00 – 8.00                      | 4.90                      |
| Lauric Acid              | C12:0                 | 40.00 – 48.00                    | 43.50                     |
| Myristic Acid            | C14:0                 | 15.00 – 20.00                    | 17.20                     |
| Palmitic Acid            | C16:0                 | 7.00 – 11.00                     | 8.90                      |
| Stearic Acid             | C18:0                 | 1.00 – 11.00                     | 4.60                      |
| Oleic Acid               | C18:1 (n-9)           | 10.00 – 15.00                    | 14.00                     |

| <b><u>MICROBIAL ANALYSIS</u></b>   | <b><u>SPECIFICATIONS</u></b> | <b><u>STANDARDS</u></b> | <b><u>RESULTS</u></b> |
|------------------------------------|------------------------------|-------------------------|-----------------------|
| 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              |

| <b><u>HEAVY METAL TESTS</u></b> | <b><u>SPECIFICATIONS</u></b> | <b><u>STANDARDS</u></b> | <b><u>RESULTS</u></b> |
|---------------------------------|------------------------------|-------------------------|-----------------------|
| 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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