

TECHNICAL DATA SHEET

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| Product Name | TUCUMA OIL |
| Botanical Name | Astrocaryum vulgare |
| Product Code | PCO4118 |
| CAS # | 98143-57-8 |

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|--------------------------|-----------------------|
| Part Used | Pulp |
| Extraction Method | Cold Pressed |
| Quality | 100% Pure and Natural |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> |
|--|--|
| Appearance | Yellowish green to dark green colored liquid |
| Odour | Mild, pleasant, sweet fruity odour |
| Refractive Index | 1.440 - 1.470 @ 20°C |
| Specific Gravity (g/mL) | 0.950 - 0.990 @ 20°C |
| Saponification Value (mgKOH/g) | 175 - 190 |
| Peroxide Value (meq O₂/kg) | Less than 5.0 |
| Melting Point (°C) | 27° - 35° |
| Iodine Value (g I₂/100g) | 75 - 90 |
| Free Fatty Acids (% oleic) | Less than 2.5 |
| Acid Value (mgKOH/g) | Less than 5.0 |
| Solubility | Soluble in alcohols and fixed oils; Insoluble in water |

FATTY ACID COMPOSITION:

| <u>FATTY ACID</u> | <u>C-CHAIN</u> | <u>SPECIFICATIONS (%)</u> |
|-----------------------------|----------------|---------------------------|
| Palmitic Acid | C16:0 | 20.00 – 30.00 |
| Stearic Acid | C18:0 | 1.00 – 3.00 |
| Oleic Acid | C18:1 (n-9) | 60.00 – 70.00 |
| Linoleic Acid | C18:2 (n-6) | 1.00 – 5.00 |
| Alpha-Linolenic Acid | C18:3 (n-3) | 2.00 – 6.00 |

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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