Pracaxi Oil

BIOTARA

INCI name: Pentaclethra Macroloba Seed Oil

Technical Sheet

General Information

Pracaxi Oil is derived from the seeds of the *Pentaclethra macroloba, a* tree native to the Amazon region. It is valued for its exceptionally high concentration of behenic acid, which makes it unique compared to other natural oils. The oil is cold-pressed, refined, light yellow in color, and has a characteristic aroma. It is 100% pure, natural, wild-harvested, and insoluble in water but soluble in organic solvents.

Key Properties

- Richest known natural source of behenic acid
- Light yellow color with characteristic odor
- Excellent emollient with moisturizing, healing, and regenerative effects
- Anti-inflammatory and antimicrobial properties
- Supports skin repair and elasticity
- 100% pure, natural, and sustainably harvested

Personal Care Applications

Pracaxi Oil is widely used in cosmetics and dermatological care due to its moisturizing, healing, and therapeutic benefits. It helps reduce scars, stretch marks, spots, acne, and psoriasis. The oil is also used in hair products to promote shine, reduce dandruff, and prevent hair loss. Its antimicrobial activity supports skin healing, while bioactive compounds provide anti-inflammatory benefits.

Recommended usage: 1–100%
Packaging: Available in pails and drums

Uses & Benefits

Hair Care

- Enhances shine and softness
- Nourishes scalp and prevents hair loss
- Improves hydration and manageability
- Helps reduce dandruff and scalp irritation

Skin Care

- Deep hydration and nourishment
- Helps in the treatment of scars, stretch marks, spots, acne, and psoriasis
- Reduces wrinkles and fine lines
- Supports regeneration and healing of skin tissue
- Protects against dandruff, flaking, and scalp irritation

Background

Pracaxi Oil (Cas number 866620-18-0) is highly regarded for its cosmetic and therapeutic properties. Traditionally used in Amazonian communities, it is known for its insecticidal activity against the Aedes aegypti mosquito (vector of yellow fever and dengue). Isolated fractions of the oil are also studied for anti-hemorrhagic properties, showing potential in treating snakebites and other medical applications. BioTara ensures sustainable sourcing and supports Brazilian cooperatives, with seeds directly processed and pressed within the community.

Specifications – Pracaxi Oil

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Analytical Details	Method	Specification
Appearance (25ºC)	Organoleptic	Liquid
Color	Organoleptic	Translucent Yellow
Odor	Organoleptic	Characteristic
Acids value (oleic acid)	AOCS CD3D-63	<20 mg KOH/g
Refractive Index (40ºC)	AOCS CC7-25	1.4611-1.5891
Peroxide Value (index)	AOCS CD8-53	<15 mEq O2/kg
Iodine Value (wijs)	AOCS TG2A-64	50-77 gl2/100g
Density 25ºC	AOCS CC 10C-95	0.909-0.998 g/mL
Saponification value	AOCS CD3-25	175-188 mg KOH/g
Unsaponifiable matter	AOCS CA 6A-40	<2%
Melting point	AOCS CC1-25	18.5ºC

Fatty Acid Profile

Fatty Acid	Method	Specification
Capric (C10:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	<1.5%
Palmitic (C16:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	1.5-3.5%
Stearic (C18:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	1.5-3%
Oleic (C18:1)	AOCS Ce 1h-05 ISO12966(GC-FID)	45-55%
Linolenic (C18:3)	AOCS Ce 1h-05 ISO12966(GC-FID)	10-15%
Behenic (C22:00)	AOCS Ce 1h-05 ISO12966(GC-FID)	14-20%
Lignoceric (C24:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	8-14%

Microbiological Analysis

Parameter	Specification	Method
Aerobic bacteria	<100 CFU/g	NF EN ISO 21149
Yeast & mold	<10 CFU/g	NF EN ISO 16212
Pathogens (*Candida albicans, Salmonella spp., E. coli, Pseudomonas, Staphylococcus aureus*)	Absent	NF EN ISO 18416/21150/6579/22717/22718