BIOTARA

Tucuma Butter

INCI name: Astrocaryum Tucuma Seed Butter

Technical Sheet

General Information

Tucuma Butter is extracted from the pulp of Astrocaryum vulgare, an Amazonian palm fruit. It is highly valued for its emollient, antioxidant, and moisturizing properties, making it suitable for beauty, personal care, and therapeutic formulations. The butter is 100% pure, natural, wild-harvested, insoluble in water, and soluble in organic solvents.

Key Properties

- Solid at room temperature, becomes soft/liquid at higher temperatures
- Slightly yellowish in color with characteristic aroma
- Rich in fatty acids (lauric, myristic, oleic, linoleic)
- Contains antioxidants and anti-inflammatory compounds
- Excellent emollient and skin conditioner
- 100% pure, natural, and sustainably harvested

Uses & Benefits

Hair Care

- Moisturizes dry and brittle hair
- Strengthens strands, reduces breakage
- Controls frizz and prevents split ends
- Enhances softness and natural shine
- Protects against external/environmental damage

Skin Care

- Deep hydration and nourishment
- Restores elasticity and softness
- Creates protective film without clogging pores
- Antioxidant protection against free radicals
- Soothes irritated and inflamed skin

Personal Care Applications

Tucuma Butter is used in skin care and hair care products due to its ability to hydrate, soften, and protect. On skin, it provides softness and elasticity without clogging pores, making it suitable for dry, aged, or acne-prone skin. In hair formulations, it conditions, repairs damage, and restores shine, while controlling frizz and preventing split ends. Its high fatty acid and antioxidant content also provides protection against external damage and premature aging.

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

Background

Tucuma Butter (CAS number 942505-39-7) is extracted from the fruit of the Amazonian “tucumanzeiro” palm, known for its resilience and ability to regrow after fire. Traditionally valued in local communities, the butter provides deep hydration, skin healing, and hair conditioning benefits. BioTara ensures sustainable sourcing, supporting Brazilian cooperatives, with seeds directly processed and pressed within the community to maintain purity and freshness.

Specifications – Tucuma Butter

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Analytical Details	Method	Specification
Appearance (25ºC)	Organoleptic	Solid
Color	Organoleptic	White to beige
Odor	Organoleptic	Characteristic
Acid Value (oleic acid)	AOCS CD3D-63	< 20 mg KOH/g
Refractive Index (40ºC)	AOCS CC7-25	1.4562–1.5612
Peroxide Value (index)	AOCS CD8-53	<15 meq/kg
Saponification value	AOCS CD3-25	230-250 mg KOH/g
Iodine Value (Wijs)	AOCS TG2A-64	10-30
Melting point	AOCS CC1-25	30-32ºC
Density (25ºC)	AOCS CC 10C-95	0.890-0.981%
Moisture Content	AOCS Ca2e:84(09)	0–0.5%

Fatty Acid Profile

Fatty Acid	Method	Specification
Capric (C10:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	1–2%
Lauric (C12:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	44–55%
Myristic (C14:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	22-30%
Palmitic (C16:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	5-10%
Stearic (C18:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	2-3%
Oleic (C18:1)	AOCS Ce 1h-05 ISO12966(GC-FID)	8-10%
Linolenic (C18:3)	AOCS Ce 1h-05 ISO12966(GC-FID)	2-5%

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