Oleic Extract of Urucum

BIOTARA

INCI name: Bixa Orellana Seed Extract

Technical Sheet

General Information

Oleic extract of urucum is obtained from the seed of Annatto (Bixa orellana L.) with sunflower seed oil by maceration method, is suitable for beauty, personal care, and medicinal applications. It is cold-pressed, has a shelf life of 18 months, and is produced in Brazil within traditional communities. Known for its vibrant orange-to-reddish color, the oil is rich in carotenoids and vitamin E, giving it strong antioxidant and anti-inflammatory properties.

Key Properties

- Liquid, Red to Orange
- Density (25 °C): 0.900–0.926 g/mL.
- Flash point: ~150 °C.
- High in unsaturated fatty acids (oleic, linoleic).
- Rich in carotenoid pigments (bixin, norbixin).
- Insoluble in water; soluble in oils and organic solvents.
- 100% pure, natural, and wild-harvested.

Personal Care Applications

Oleic Extract of Urucum is ideal for creams, lotions, sunscreens, shampoos, conditioners, and cosmetic formulations such as lipsticks, eyeshadows, and makeup. Rich in carotenoids and vitamin E, it delivers antioxidant, anti-aging, anti-inflammatory, and healing benefits while protecting against oxidative stress. It supports sensitive or irritated skin, aids regeneration, and helps protect against UV damage (not a substitute for SPF). In hair care, it nourishes, strengthens, and adds shine, while its natural pigments provide vibrant reddish-orange coloration for cosmetics.

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

Uses & Benefits

Hair Care

- Nourishes and strengthens hair strands
- Improves softness and natural shine
- Helps prevent dryness and brittleness
- Protects against external damage
- Revitalizes and supports scalp health
- Valuable in shampoos, conditioners, and hair treatments

Skin Care

- Antioxidant: protects against free radicals and premature aging.
- Natural photoprotector: helps protect against UV radiation.
- Emollient: moisturizes and softens the skin.
- Anti-inflammatory: soothes irritated or inflamed skin.
- Healing: promotes tissue regeneration.
- Hair care: nourishes, strengthens, and adds shine.

⚠️ Important: Oleic Extract of Urucum is not a substitute for sunscreen and should be used alongside SPF for full protection.

Background

Oleic Extract of Urucum is derived from the seeds of *Bixa orellana L.* (CAS n. 89957-43-7), native to tropical America, especially the Amazon. Seeds are carefully harvested to preserve pigment quality (bixin and norbixin), which provide the oil's natural color. The seeds are processed and pressed within the community, ensuring sustainable production. BioTara ensures premium quality, storing and packaging Urucum Oil to maintain purity, freshness, and nutritional value.

Specifications – Oleic Extract of Urucum

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Analytical Details	Method	Specification
Appearance	Organoleptic	Liquid
Color	Organoleptic	Red to Orange
Odor	Organoleptic	Characteristic
Acid Value (oleic acid)	AOCS CD3D-63	<20
Refractive Index (40ºC)	AOCS CC7-25	1.465 – 1.485
Peroxide Value (index)	AOCS CD8-53	<15 meq/kg
Density (25ºC)	AOCS CC 10C-95	0.900-0.926
Iodine Value (Wijs)	AOCS TG2A-64	70 – 120
pH	AOCS G7-56	4.5-7.0
Bixin	NBR 13.632	10-20 g/100g
Moisture Content	AOCS Ca2e:84(09)	0 – 0.5%
Unsaponifiable matter	AOCS CA 6A - 40	<1.5%

Fatty Acid Profile

Fatty Acid	Method	Specification
Palmitic (C16:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	5-10%
Stearic (C18:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	3-6%
Oleic (C18:1)	AOCS Ce 1h-05 ISO12966(GC-FID)	13-40%
Linoleic (C18:2)	AOCS Ce 1h-05 ISO12966(GC-FID)	40-74%

Microbiological Analysis

Parameter	Specification
Aerobic bacteria	<100 CFU/g
Yeast & mold	<100 CFU/g
Pathogens (Salmonella, E. coli, Pseudomonas, Staphylococcus)	Absent