

Global Cosmetic-Grade Papain Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cosmetic-Grade Papain market size is expected to reach \$ 58.25 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

Cosmetic-grade papain is a natural proteolytic enzyme extracted from papaya latex. Its core function is to gently exfoliate and brighten the skin by breaking down dead skin cells.

Skincare Efficacy and Mechanism of Action:

Gentle Exfoliation, Say Goodbye to Roughness: Through hydrolysis, it selectively breaks down aged and dead skin cells while preserving healthy new cells. This characteristic makes it gentler than physical scrubs, suitable for improving closed comedones and keratosis pilaris.

Whitening and Brightening, Fading Spots: It blocks the activity of tyrosinase, a key enzyme in melanin formation, and binds to its key component, copper ions, reducing melanin production at its source. A clinical trial showed that after 28 days of use of skincare products containing papain, the skin smoothness of subjects improved from 1.1% to 25.3%.

Skin Softening and Anti-Wrinkle, Promoting Regeneration: After breaking down dead skin cells, it accelerates skin metabolism and promotes the generation of new cells, making the skin smoother. The hydrolysate also forms an amino acid protective film on the skin surface, providing moisturizing effects.

Key Production Steps:

Raw Material Collection: Lactose is collected from the cut surfaces of unripe papayas (7-9 maturity).

Extraction and Purification: Low-temperature extraction (?40°C), salting-out precipitation, dialysis desalting, and freeze-drying.

Activity Assay: Enzyme activity is determined using the casein method/benzoylarginine ethyl ester method to ensure compliance with cosmetic-grade standards.

Quality Control: Heavy metals (Pb/Cd/As/Hg)

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