

Hydrolyzed Elastin Powder

Description

Elastin, like collagen, belongs to the group of scleroproteins. It is a key protein that derives from connective tissue. As the name suggests, elastin provides the skin with the ability to go back to its original shape after being stretched or pulled. Elastin is found in our artery walls, intestines, lungs, and of course skin. Elastin is 1000 times more flexible than collagen. Its rubber band-like nature is essential in helping us convey expressions. In the body, elastin is associated with other proteins in a functional network. Elastin fibers are bundles of proteins (amorphous elastin) and fibrous fibrillin, which are produced by a number of different cell types including fibroblasts. The harmful rays of the sun can damage the elastin in your skin which becomes more apparent as you age. This process breakdowns the elastic, causing the skin to sag and stretch, ultimately losing some of its ability to "snap back."

Our Hydrolyzed Elastin Powder is a low molecular weight elastin with $\geq 80\%$, that is extracted from pork tendon by biotechnological methods. It is amphipathic, i.e., hydrophilic & lipophilic, which makes it compatible with most ingredients. It provides a layer of protection on the hair, rebuilding elasticity, strength and reducing breakage of the hair. It also shows a significant delay of swelling degree on hair during alkaline process (perms and dying). Furthermore, it improves skin elasticity, prevent dry skin, reduce wrinkles and delays aging. It has a lower molecular weight (1 - 2 kDa) than our own Elastin PG 2000 and Elastin PHE 1.0 of our product portfolios.

Efficacy

- shows a build-up effect on the hair
- acts as a natural conditioning agent and strengthens the hair
- shows a significant delay of swelling degree on hair during alkaline process (perms and dying)
- reduces breakage of hair
- improves skin elasticity
- helps to prevent dry skin
- reduces wrinkles and delays aging

Appearance

light yellow powder

INCI

Hydrolyzed Elastin

Registration

CAS-No.....91080-18-1

EC-No.....293-509-4



Nature needs no cosmetics,
but cosmetics need nature

Hydrolyzed Elastin Powder

Preservatives / Stabilizers

none

Characteristics

protein..... ≥ 80.00 %
pH value.....4.5 - 6.5
moisture..... ≤ 5.0 %
molecular weight.....1 - 2 kDa

Application

daily cosmetic products
creams and lotions
face masks
gels and ampoules
hair products
sun screens

Application concentration

skin care formulations.....0.5 - 5 %

Incorporation

Hydrolyzed Elastin Powder should be blended into the water phase below 50°C (cold-process capable) and with a pH range targeting 4.5 - 5.5.

Hydrolyzed Elastin Powder is soluble in water.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Hydrolyzed Elastin Powder should be stored in sealed containers at a cool, dry and light protected place at 10 - 25°C. Ensure good ventilation.

In closed original containers the shelf life is 12 months.