



Animal and Fish origin

Elastin

HYDROLYZED ELASTIN



Elastin reinforces the bonds between collagen to provide firmness and elasticity to the skin. With age, less elastin is synthesized and the elastin content in the skin decreases. It is said that the decrease in elastin causes wrinkles and sagging skin.

Table. Amino acid composition of elastin*

Amino Acid	Number of amino acid residues**	Amino Acid	Number of amino acid residues**
Aspartic acid	4	Valine	123
Threonine	12	Methionine	1
Serine	12	Isoleucine	25
Glutamic acid	18	Leucine	67
Proline	119	Tyrosine	9
Glycine	308	Phenylalanine	28
Alanine	207	Lysine	51
Cystine	4	Arginine	11
		Total	1,000

* Amino acid composition of tropoelastin, which is a precursor of elastin.
 ** Number of residues of individual amino acids when the total amino acid residues is designated as 1000.

Elastin is a protein that contains amino acids such as glycine, alanine, valine and proline in larger percentages.

Characteristics



Elastic fiber

Elastin is an elastic and fibrous protein and plays a role to provide elasticity to tissues in the body.



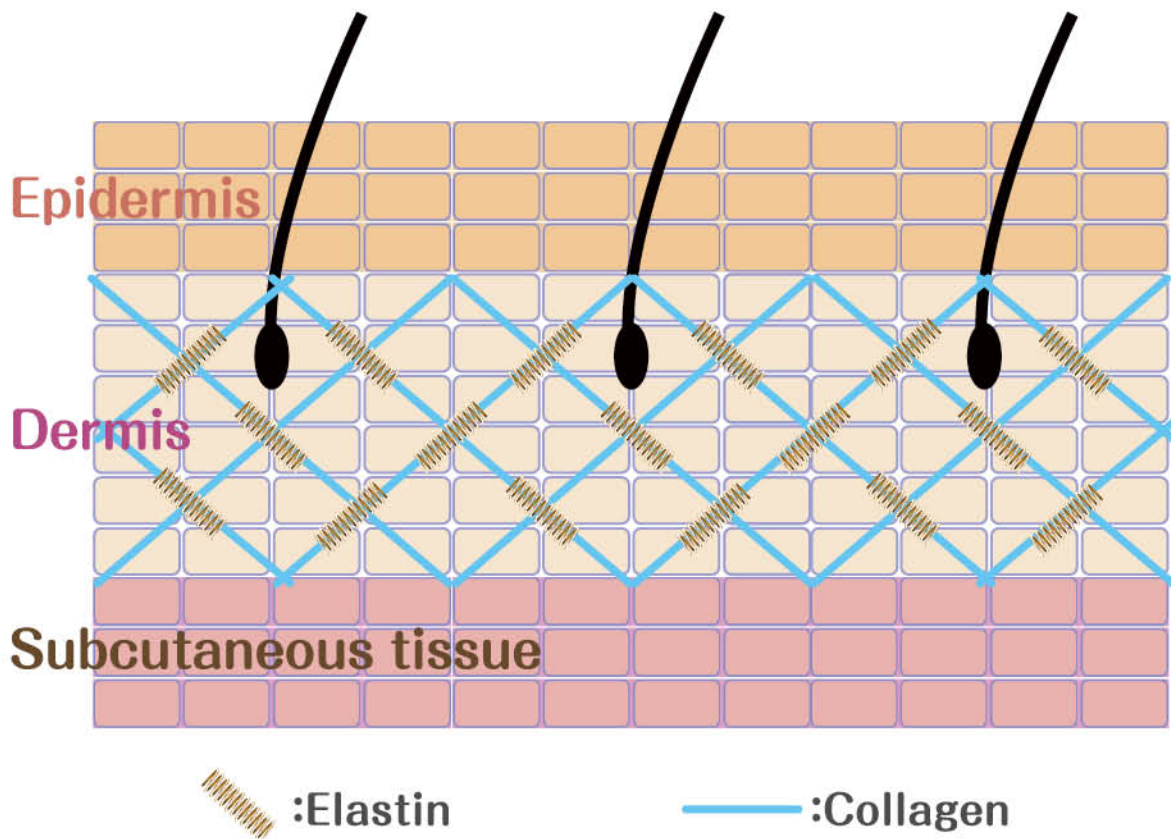
Cell function control

Effects to control cell functions such as proliferation, migration, adhesion and differentiation have been found.

Applications: Lotions, milky lotions, creams, skin care products, etc.

Elastin

Role of Elastin in the skin tissue



Elastin is elastic and fibrous protein that is distributed abundantly in the dermis, ligaments and blood vessels. Collagen in tissues functions as lattice beams, and elastin coils around collagen to maintain tissue form and provide elasticity. Elastin decreases along with aging, causing wrinkles and sagging.

Table. Ingredients and extraction methods for elastin-related products

Product name	Ingredient		Extraction method
	Bovine (ligamentum nuchae)	Fish(skin)	
Hydrolyzed Elastin	○	--	Enzyme treatment
Hydrolyzed α -Elastin	○	--	Oxalic acid treatment
Elasocean	--	○	Enzyme treatment

○: Available --: Not available

Product No.	Product name	INCI name/ 中文名称	Other ingredients	Package
EBE-311	Hydrolyzed Elastin 10% MP*	HYDROLYZED ELASTIN	DISODIUM PHOSPHATE,POTASSIUM PHOSPHATE,WATER,METHYLPARABEN	1kg
EBA-211	Hydrolyzed α -Elastin 4% MP*	HYDROLYZED ELASTIN	DISODIUM PHOSPHATE,POTASSIUM PHOSPHATE,WATER,METHYLPARABEN	1kg
EME-211	Elasocean 4% MP	水解弹性蛋白	DISODIUM PHOSPHATE,POTASSIUM PHOSPHATE,WATER,METHYLPARABEN	1kg
EME-221	Elasocean 4% PE	水解弹性蛋白	DISODIUM PHOSPHATE,POTASSIUM PHOSPHATE,WATER,PHENOXYETHANOL	1kg

*Phenoxyethanol(PE) products are made-to-order.

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