

*For Skin Care Cosmetics*

# Promois

Fish Collagen Peptide Series 

Get Moisture and Healthy Skin  
by Fish Collagen

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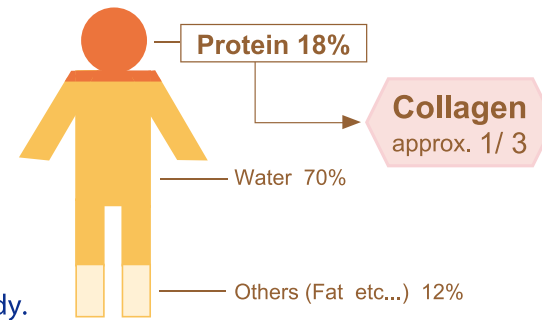
# Collagen and Beauty

## Body and Collagen

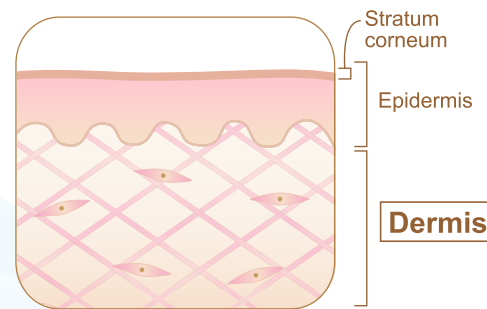
Human body is composed of 70% water and **18% protein**. Collagen is an organism ingredient, and it is classified as protein.

Tens of thousands of protein exist in human body. How much does collagen occupy among these? The answer is **“One Third” of all protein**.

It can be easily understood how important collagen is for our body.



## Beauty skin and collagen



Much collagen exist in Bone, Tendon, and **Skin**.

Collagen is the **main component of dermis**, which is the basement of skin.

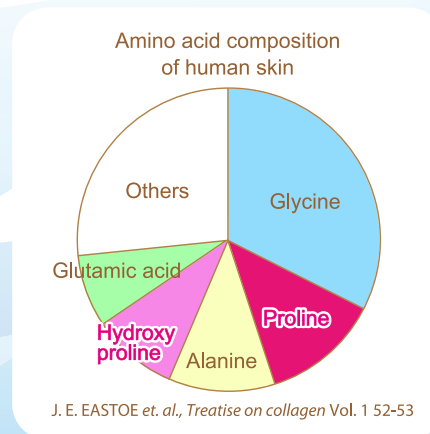
It has important role to provide elasticity, flexibility and moisture. Why does collagen has such the special functions?

The answer is hidden in its unique amino acid composition.

Collagen contains high amounts of **Proline** and **Hydroxyproline** as shown in the right figure. These amino acids have excellent moisture holding ability.

Hydroxyproline is well known as a **special amino acid existing only in collagen**. Proline is also known as one of the major **components of NMF (natural moisturizing factor)**, which is involved in the moisture of skin.

It is not too much to say that there is no protein containing these amino acid so much.



## Collagen peptide as cosmetic material

Many kinds of materials derived from collagen are used for cosmetics thanks to the affinity to skin, moisturizing ability, and high safety.

A collagen peptide is small molecular material obtained by hydrolyzation of collagen.

**Collagen peptide originated from fish** is especially paid attention as material for skin care products **in terms of low odor and color, water solubility**, compared with other collagen peptides.



# Promois

## Fish Collagen Peptide Series

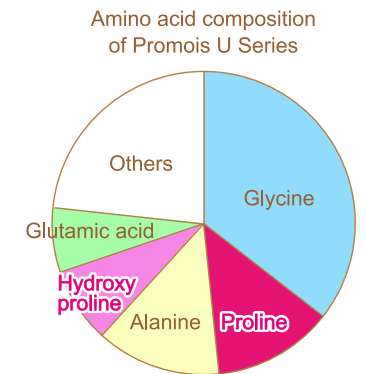


Promois U series are water soluble collagen peptides derived from hydrolyzation of fish scale collagen.

These are suitable for skin care cosmetics as low odor and color. In addition, these have high affinity to skin by having similar amino acid composition with skin collagen and have great moisturizing efficacy because of much proline and hydroxyproline.

We can offer 3 types of Promois U series classified in terms of molecular weight.

The variety enable to get best texture by proper choice and combination.



Product Name	Promois W-32U	Promois W-42U	Promois W-52U
Number-average molecular weight	400 ●	1000 ●	2000 ●
Texture type	Moisture Penetration Type	Balanced Type	Moisture Veil Type
INCI Name	HYDROLYZED COLLAGEN, WATER		
Active matter	20%		

### [ Sensory Evaluation / Skin Toner ]

- **Skin lotion containing Promois U series** is superior in affinity to skin and texture.
- **Promois W-32U**, a small molecular type, provides moist feeling and penetrates to skin quickly.
- **Promois W-52U**, a big molecular weight type, makes thin layer coating on skin and arranges skin condition.

Component	(W/W%)		
	Control	W-32U	W-52U
Promois W-32U	—	2.0	—
Promois W-52U	—	—	2.0
GLYCERIN	3.0	3.0	3.0
BUTYLENE GLYCOL	3.0	3.0	3.0
CITRIC ACID	0.1	0.1	0.1
SODIUM CITRATE	0.2	0.2	0.2
ALCOHOL	5.0	5.0	5.0
ETHYLHEXYLGLYCERIN PHENOXYETHANOL *	0.5	0.5	0.5
WATER	up to 100	up to 100	up to 100

\* Euxyl PE9010 (Schülke & Mayr)

[Sensory evaluation in Skin toner]

10 panelists evaluated the sensory texture of the skin for skin toner containing Promois W-32U, W-52U, and control. They gave -2 to +2 points by comparison with the control. The graph shows the sum of total points.

