



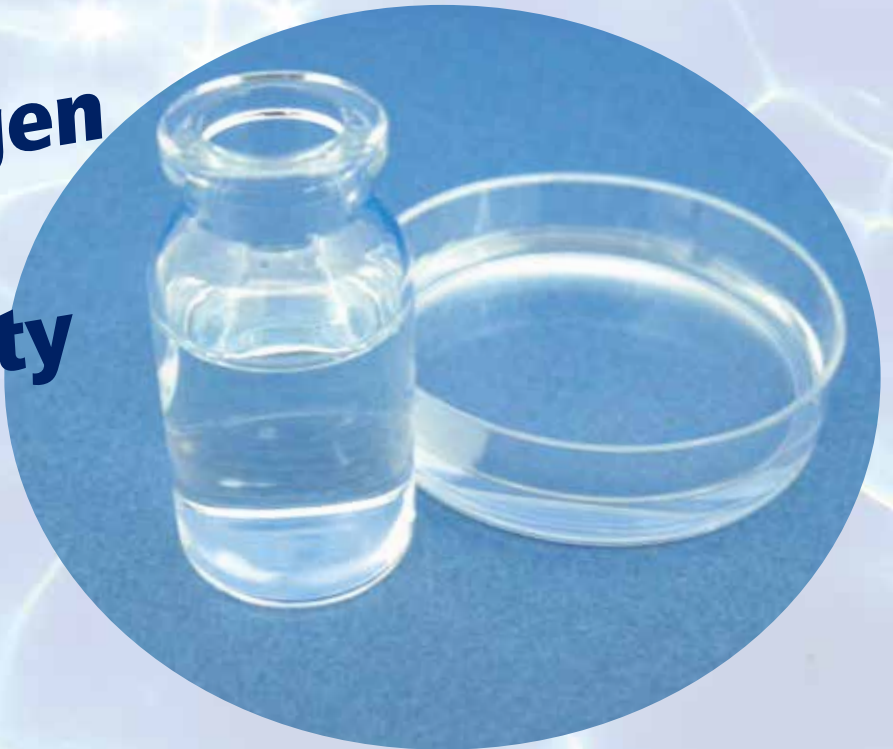
Marine-derived Cosmetic Material

Tilapia Atelocollagen H

SOLUBLE COLLAGEN

Fish atelocollagen for high-concentration use!!

**Soluble collagen
with
high solubility
in neutral
solutions**



Natural

This product is a natural marine atelocollagen extracted from the scales of the tilapia.

Clear

Extracted by alkali treatment, this atelocollagen is very transparent when dissolved in a neutral solution, and can be used in a variety of cosmetic products including skin lotions and beauty essences.

Applications:
skin lotions, beauty essences, creams, etc.

Characteristics

Moisturizing effect



Triple-helical collagen with hydrophilic amino acids arranged on the molecular surface.

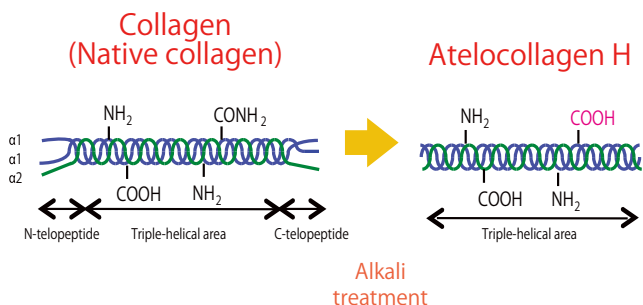


Marine collagen highly soluble in neutral and basic solutions

Tilapia Atelocollagen H



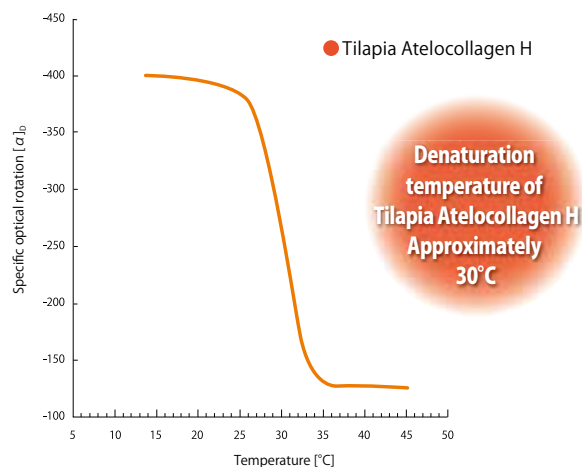
Diagram of molecule



Obtained by alkali treatment, Atelocollagen H is a collagen with a triple-helical structure from which antigenic sites (telopeptides) have been removed. It is a marine protein with hydrophilic amino acids arranged on the molecular surface, and has a strong moisturizing effect.



Denaturation temperature of Atelocollagen H

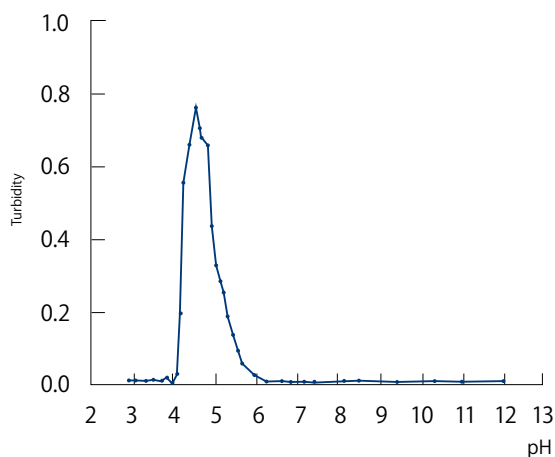


Tilapia Atelocollagen H is a soluble collagen with a denaturation temperature of approximately 30° C.

From in-house data



Relationship between solubility and pH



Solubility of atelocollagen

Product name	isoelectric point (pI)	Acid solution	Neutral solution	Basic solution
Tilapia Atelocollagen H	5.1	△	○	○

Tilapia Atelocollagen H is a collagen that is highly soluble in the pH range at or above 6 and at or below 4. When used in neutral skin lotions or beauty essences, it is less likely to become turbid or form a precipitate, and can be used in a wide range of formulations.

In gels, creams and other semitransparent or opaque products, it can be used as a moisturizing substance regardless of pH value.

From in-house data

Safety evaluation

Human repeated insult patch test (HRIPT): Negative

Product No.	Product name	INCI name/中文名称	Other components	Package
ATH-121	Tilapia Atelocollagen H 0.3% PE	SOLUBLE COLLAGEN	DISODIUM PHOSPHATE, POTASSIUM PHOSPHATE,	1kg
ATH-221	Tilapia Atelocollagen H 1% PE	可溶性胶原	WATER, AND PHENOXYETHANOL	1kg

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