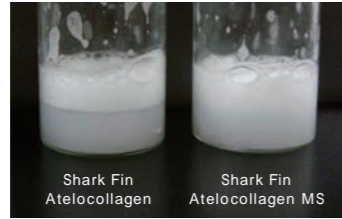


### Amphipathicity of Shark Fin Atelocollagen MS

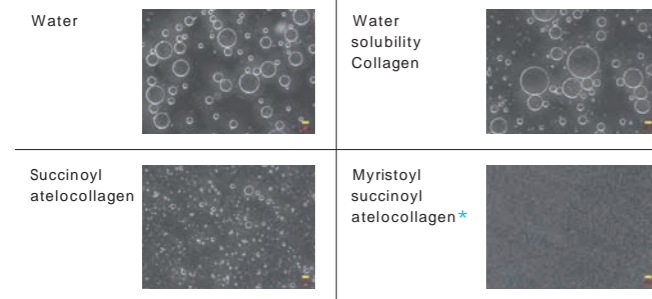
Ten grams of 0.1% collagen solution was added to 0.1 g of face wash foam. A vial was shaken 100 times and left to stand. In five minutes, the outer appearance was observed.



Based on in-house data

Microscopic observation Bar: 50 μm

A 0.8% collagen solution, PEG 400, and olive oil were mixed at a 1:1:1 ratio. Then, the mixture was stored for four days at 25 °C.



The emulsion stability was only recognized with Shark Fin Atelocollagen MS.

\*Oil droplets with a diameter of a few micromillimeters were only observed with Shark Fin Atelocollagen MS. Based on in-house data

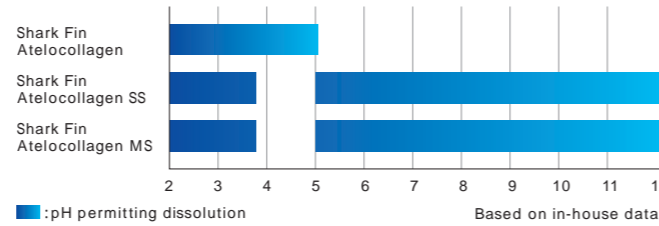
### Compatibility of Shark Fin Atelocollagen MS

The compatibility was checked when 0.2% Shark Fin Atelocollagen MS and each cosmetic raw material were mixed at a 1:1 ratio and stored at room temperature.

Raw material (final concentration)	Immediately after mixing	1 mo. later
0.01% sodium hyaluronate	○	○
10% glycerin	○	○
0.1% sodium alginate	○	○
0.1% xanthan gum	○	x
5% ethanol	○	○
30% butylene glycol	○	○
5% pentylene glycol	○	○
5% propanediol	○	○

Based on in-house data

### Relationship between pH and solubility



Based on in-house data

Recommended formulation ratio: 1% Safety evaluation Human Repeat Insult Patch Test (HRIPT): Negative

Product number	Product name	INCI name / 中文名称	Other ingredients	Package
AFN-221	Shark Fin Atelocollagen 1% PE	SOLUBLE COLLAGEN 可溶性胶原	Citric acid, sodium citrate, phenoxyethanol, water	1kg
AFS-121	Shark Fin Atelocollagen SS 0.3% PE	SUCCINOYL ATELOCOLLAGEN 琥珀酰端胶原	Disodium phosphate, potassium phosphate, phenoxyethanol, water	
AFS-221	Shark Fin Atelocollagen SS 1% PE		Disodium phosphate, potassium phosphate, phenoxyethanol, cellulose gum, water	
AFV-121	Shark Fin Atelocollagen SS-V 0.3% PE	MYRISTOYL SUCCINOYL ATELOCOLLAGEN 肉豆蔻酰琥珀酰端胶原		

The Country of origin: Japan The place of Origin: Miyagi Pref.

Commitment to material procurement	Domestically produced raw materials	Effective use of materials (sustainability)	Ethical consumption
	We use fins of blue sharks landed at Kesenuma, Miyagi. Traceability has been established for the raw material to ensure reassurance and safety.	We use inedible shark fins. We give consideration to the environment in the procurement of cosmetic raw materials.	Kesenuma boasts the largest landings of sharks in Japan. In cooperation with local food product companies, we will support the creation of a recycling-based society and future-oriented production of cosmetics.

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<https://koken-cosme.com/>



Domestically produced collagen similar to baby collagen

# Shark Fin Atelocollagen

(soluble collagen, succinoyl atelocollagen, and myristoyl succinoyl atelocollagen)

Three approaches that aid recovery from chapping

Basic type  
Soluble collagen

Maintains the innate structure of skin  
Tones the skin

SS type  
Succinoyl atelocollagen

Protects the skin  
Soft and springy skin

MS type  
Myristoyl succinoyl atelocollagen

Long-term effect through amphipathicity  
Softens the skin



