

『Water-soluble Proteoglycan』

 Food Cosmetic

Proteoglycan is Extracted from Nasal Cartilage of Natural Salmon



Salmon is very popular and eaten widely in the world. Proteoglycan are extracted from the nasal cartilage of natural salmon.

Nasal cartilage of salmon called “Hizu”(Icy head), because it looks clear and beautiful, is eaten traditionally in Hokkaido and Tohoku region.

The ingredient is extracted from natural salmon of Hokkaido that is very familiar with Japanese people, so it has very reliable image.

Not only reliable and familiar image, from the catching the fishes to processing, all the process is done in Japan, so it have a strong traceability.

Expected Function

- ◎ Improving skin conditions
- ◎ Moisturising skin
- ◎ Beautiful skin effect
- ◎ Promoting collagen & hyaluronic acid production
- ◎ Whitening effect
- ◎ EGF-like effect
- ◎ FGF-like effect

Uses

- ◎ Ingredient for cosmetics
(Keeping skin more moistured, supple, whitened, etc.)

Production Process



Indication for Cosmetics

表示名称	INCI名
Water-soluble Proteoglycan	Soluble Proteoglycan
BG	Butylene Glycol
Water	Water

Quality Standard Composition

Material	Nasal Cartilage of Salmon
Property	Light yellow liquid with its original scent
Proteoglycan (Normal pressure heat drying method)	0.7~1.3%
pH	7.0~8.5
Heavy metal (Pb)	Less than 20ppm
Arsenic	Less than 2ppm
Viable count of bacteria	Less than 300 pcs/g
Coliform bacteria	Negative

Shipping

Quantity	1kg, 5kg
Storage term	2 years
Storage conditions	Keep in cool dry location, and avoid direct exposure to sunlight.

Company Information

Where you can find Hokkaido supplements and cosmetics.



North Life Co., Ltd.

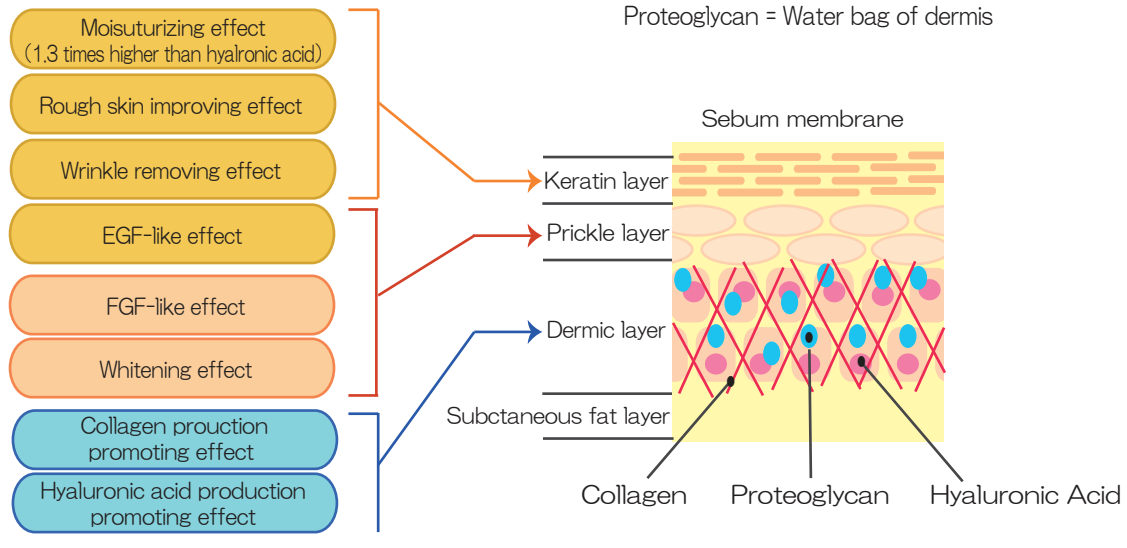
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Hokkaido Salmon 『Water-soluble Proteoglycan』

■ What is Proteoglycan?

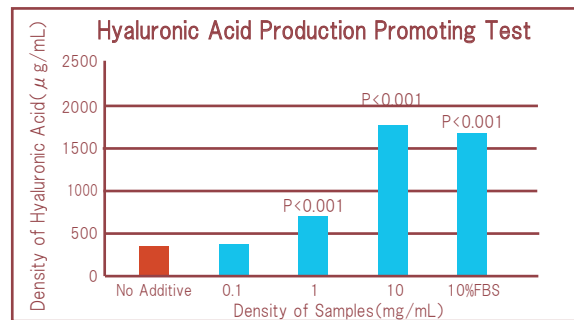
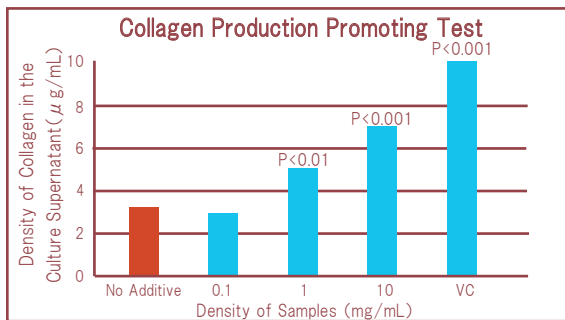
Proteoglycan is a kind of glycoprotein in a broad sense that sulfated polysaccharide called glycosaminoglycan such as chondroitin sulfate, dermatan sulfate, heparan sulfate, heparin and keratan sulfate covalently bonded to the protein. Proteoglycan is present in the extracellular matrix and cell surfaces of animals. It is also present in the fibrous matrix and the cell surface of hyaluronic acid and collagen, and forming a fibrous matrix proteins and complex of hyaluronic acid and collagen.

■ Expected Function on Skin Tissue



■ Regeneration of Skin

Collagen and hyaluronic acid production promoting test is performed with proteoglycan addition group and non-addition group by using normal human epidermal cells and normal human fibroblast cells. As a result of the test, high production promotion in the addition group is observed. From the above, high skin regeneration effect with proteoglycan is assumed.

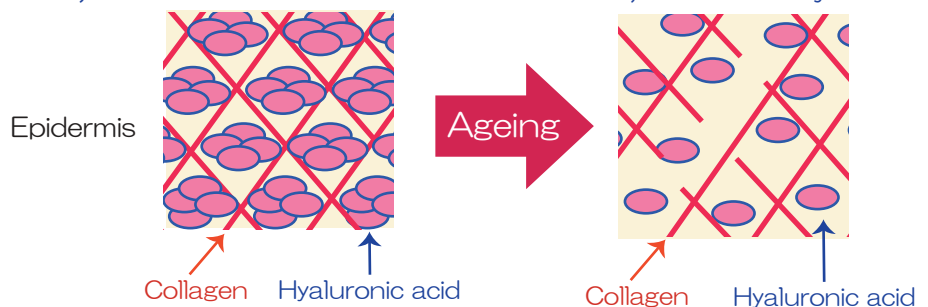


Collagen and hyaluronic acid form epidermis of skin. Collagen which accounts for 70% of the epidermis produces firmness and elasticity of the skin. Hyaluronic acid has an excellent water-holding capacity, and gives a firmness and moisture to the skin.

Collagen and hyaluronic acid are produced from fibroblasts, so a substance that promotes these production is important for skin regeneration and beautiful skin effect.

Collagen → Skin firmness and elasticity
Hyaluronic acid → Skin firmness & moisture

Reduction of Collagen → Wrinkle and sagging
Reduction of Hyaluronic acid → Losing firmness & moisture



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