

『Undenatured Type II Collagen + Proteoglycan』

 Food Cosmetic

Undenatured Type II Collagen & Proteoglycan are Extracted from Natural Salmon



Salmon is very popular and eaten widely in the world. Undenatured type II collagen & 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 has a strong traceability.

Expected Function

- ◎ Improving skin conditions ◎ Promoting collagen & hyaluronic acid generation
- ◎ Moisturising skin ◎ Reducing joint pain
- ◎ Beautiful skin effect ◎ Anti-inflammation effect

Uses

- ◎ Joint supplements, drinks and processed foods
- ◎ Beauty supplements, drinks and processed foods

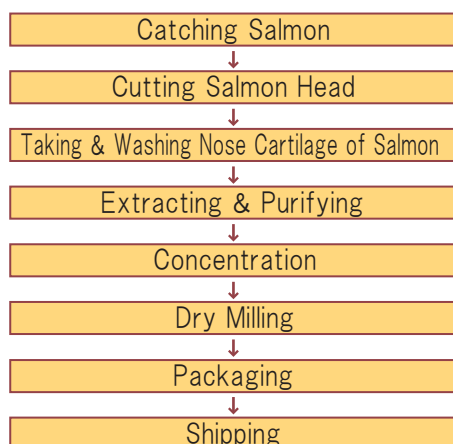
Recommended Dosage

15 ~ 30mg / day

Allergen Labeling

Salmon head is used as a raw material for collagen. Salmon must be mentioned in allergen labeling.

Production Process



Chemical Analysis Value (/100g)

Energy	308	kcal
Protein	56.4	g
Fat	1.8	g
Carbohydrate	16.5	g
Moisture	5.0	g
Sodium	325	mg
Ash	20.5	g

Quality Standard Composition

Material	Nasal cartilage of salmon
Property	Light yellow powder with its original scent
Undenatured Type II Collagen (Amino acid analyzing method)	More than 40.0%
Proteoglycan (Carbazole sulfuric acid method)	More than 30.0%
pH	7.0~8.0
Loss on drying	Less than 10.0%
Residue on ignition	Less than 25.0%
Heavy metal (Pb)	Less than 20ppm
Arsenic	Less than 2ppm
Viable count of bacteria	Less than 3,000pcs/g
Coliform bacteria	Negative

Shipping

Quantity	1kg
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.

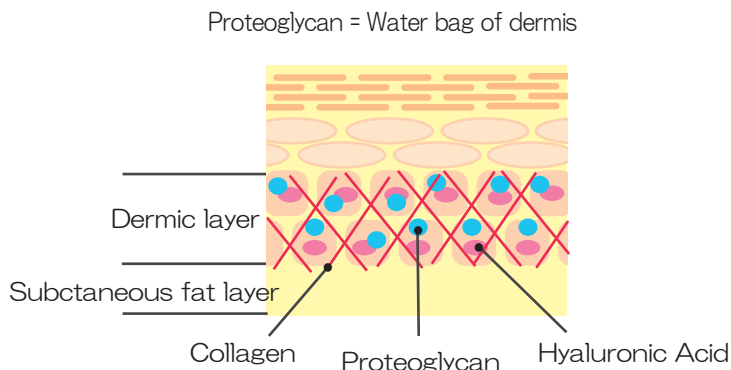
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Hokkaido Salmon 『Undenatured Type II Collagen + Proteoglycan』

What is Proteoglycan?

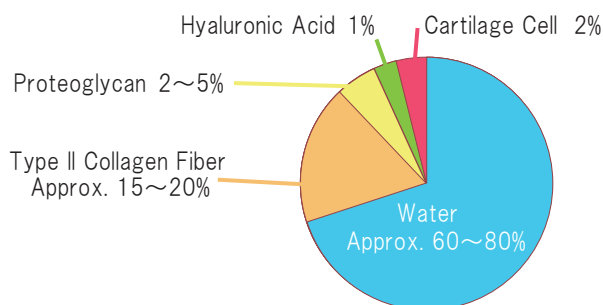
Proteoglycan is a kind of glycoprotein in a broad sense that sulfated polysaccharide called glycosaminoglycan such as chondroitin sulfate, dermatan sulfate, heparan sulfate, heparin and keratan sulfate covalently bonded to the protein. Proteoglycan is present in the extracellular matrix and cell surfaces 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.



Reducing Joint Pain

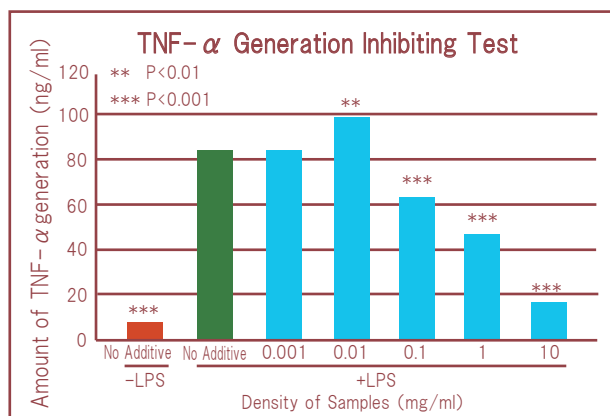
Articular cartilage is a bluish gel tissue that covers the tip of the bone. It has a structure in which proteoglycan is tangled in the framework mesh created by type II collagen fibers. It is 4 to 6mm thick and softer than bones. Its joint fluid (synovial fluid) that is composed mainly of hyaluronic acid has lower lubricating performance than the contact friction of ice and ice. Because of the above function of the cartilage, we can move our joints smoothly without direct contact of the bone and joint.

Component of Joint Cartilage



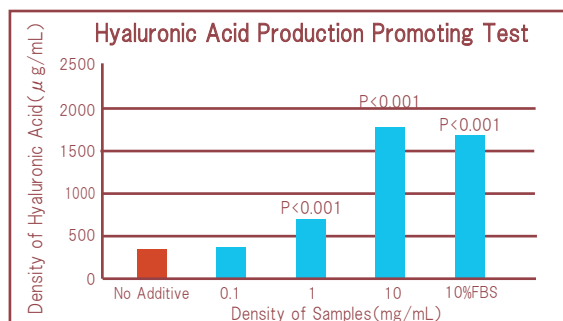
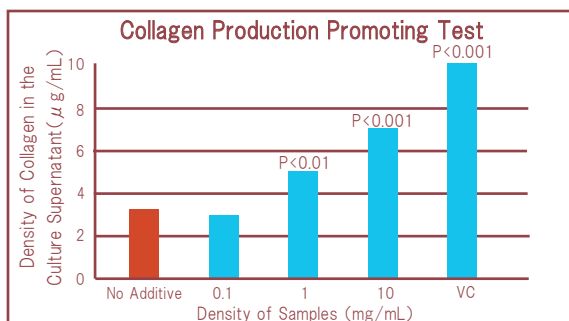
Inhibiting Inflammation

A mouse macrophage cell strains are stimulated with intracellular toxin system lipopolysaccharide (LPS) to measure inflammatory cytokines: TNF- α production inhibitory effect in proteoglycan addition group and non-addition control group. As a result of the test, high TNF- α production inhibitory effect is observed with proteoglycan addition group. From the above, high anti-inflammatory effect with the proteoglycan is assumed.



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.



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