

- Food
- Food Additive
- Cosmetic
- Quasi-drug



Hokkaido Salmon

『Salmon Nasal Cartilage Extract Powder』

Technical
Data

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 the good image, from the catching the fishes to processing, all the process is done in Japan, so it has a strong traceability.

Expected Function & Recommended Dosage

Reducing joint pain 50 mg/day

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

Uses

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

Display Name Example

- ◎ Salmon nasal cartilage extract
(undenatured type II collagen, undenatured proteoglycan-containing material)

Production Process



Quality Standard Composition

Material	Nasal cartilage of salmon (undenatured type II collagen, undenatured proteoglycan contained)
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 38.0%
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

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

*Numbers are just an analysis example. It does not guarantee the content of the product.

Other

Quantity	100g, 1kg
Shelf life	2 years from the production date
Storage condition	Keep in cool dry place, and avoid direct sunlight.

Company Information

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North Life Co., Ltd.

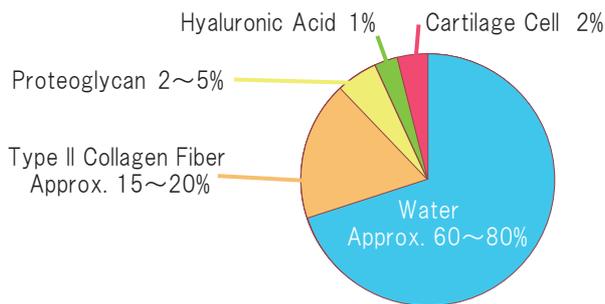
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■ Containing Undenatured Type II Collagen & Undenatured Proteoglycan

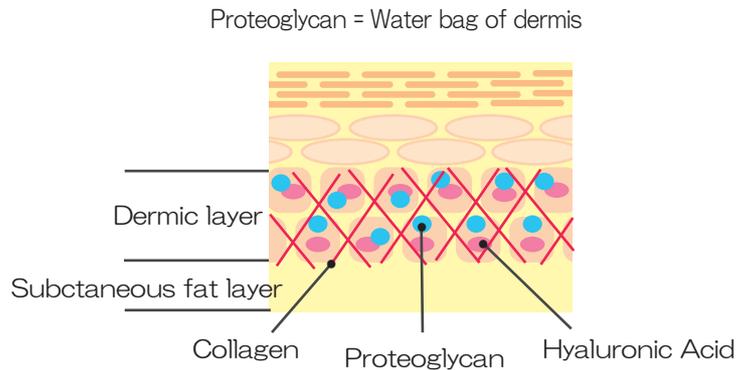
Articular cartilage is a bluish gel tissue that covers the tip of the bone. It has a structure in which proteoglycan is tangled in the framework mesh created by type II collagen fibers. It is 4 to 6mm thick and softer than bones. Its joint fluid (synovial fluid) that is composed mainly of hyaluronic 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.

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.

〈Component of Joint Cartilage〉



〈Structure of Skin Tissue〉

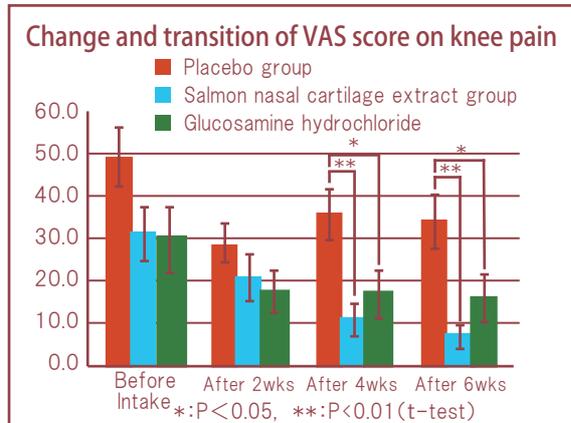


■ Reducing Joint Pain



Sixty men and women aged 40 to 75 who have subjective symptoms of pain and stiffness in the knee are divided into salmon nasal cartilage extract 50 mg intake group, glucosamine hydrochloride intake group, placebo group, and the results after 6 weeks ingestion are evaluated with WOMAC questionnaire and VAS score. As a result, efficacy of knee pain at 4 weeks after ingestion is observed in 50 mg intake group of salmon nasal cartilage extract.

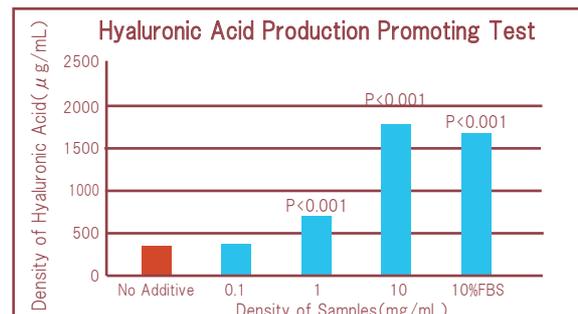
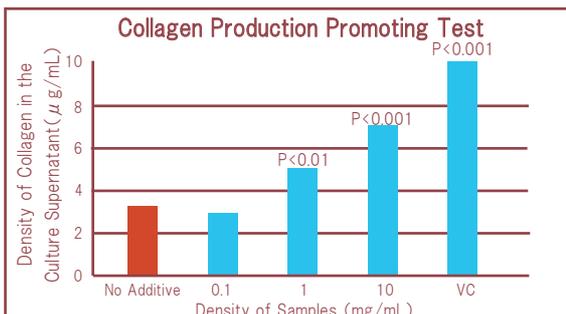
From this, it is considered that salmon nasal cartilage extract is effective for amelioration of symptoms in early inflammation of the knee and prevention of knee arthritis.



■ 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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