

## Nautient-II

Native Undenatured Tertiary Intact Collagen Type II

Application: Joint health

Dose: 40 mg/day



Nautient-II is the newest undenatured collagen for joint health promotion. Your trusted source of scientifically sound native undenatured tertiary intact collagen type II, extracted from European salmon nasal cartilage. Produced from high quality, sustainable and fresh Atlantic salmon off-cuts, through a proprietary, low-impact manufacturing process the product provides a superior nutritional profile and health promotional properties. HVEs production technology preserves the functional and nutritional value and allows the production of the highest quality undenatured and tertiary intact collagen type II in a fully sustainable fashion.

### Type II collagen and its function for joint health

Type II collagen is the major protein in cartilage tissue, providing tensile strength and toughness to the tissue. Many joint disorders proceed through inflammatory pathways leading to cartilage degradation. This is majorly caused due to an immune response against endogenous type II collagen which is causing an inflammatory response. Type II collagen in its tertiary intact, undenatured form, at low dosing regime, acts as a modulator of the inflammatory immune response.

### Immune modulation mechanism of action

Nautient-II works at very low dose (40 mg/day) through a mechanism called oral tolerance which provides a diminished immune response due to the build-up of receptor tolerance caused by low dose antigen recognition. Oral tolerance is effectuated by the following actions in the body:

1. Interaction of the orally ingested type II collagen with Peyer's patches in the gut, potentiates detection by the immune system.
2. Low dose interaction initiates a continuous immune response against endogenous type II collagen thereby lowering the immunological action.
3. Providing immunological tolerance, the type II collagen leads to the reduction of collagen degradation in the joints, supporting overall joint health and anti-inflammation.

### Collagen peptides

Salmon collagen peptides are the innovative salmon peptides comprising of majorly type I collagen providing excellent water solubility, easy digestion, high vitamin B12 content and a superior nutritional profile. Collagen peptides support the natural production of collagen in the body showcasing anti-aging benefits and providing a source of high quality building blocks for the regeneration of collagen in the body.

### Nautient-II

- New generation undenatured type II collagen and collagen peptides.
- Low dosing allowing the build-up of oral tolerance and reduction of inflammatory pathways.
- Science backed by demonstration in a plethora of scientific studies<sup>1-18</sup>: Effect on joint structure, improving knee discomfort and function, reducing inflammation.
- 100% European product, manufactured in The Netherlands.

### HVE Production Technologies BV

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19. Any of these statements have not been evaluated by competent food authorities. The product is not intended to diagnose, treat, cure or prevent any disease. This information is only for b-to-b and not meant to be addressed to final customers. The product may contain traces of other species than salmon

## About HVE Production Technologies BV

HVE is a nutraceutical company employing a proprietary low impact extraction technology with the goal to make an impact in the development and manufacturing of active biomolecules for the nutraceutical market.

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