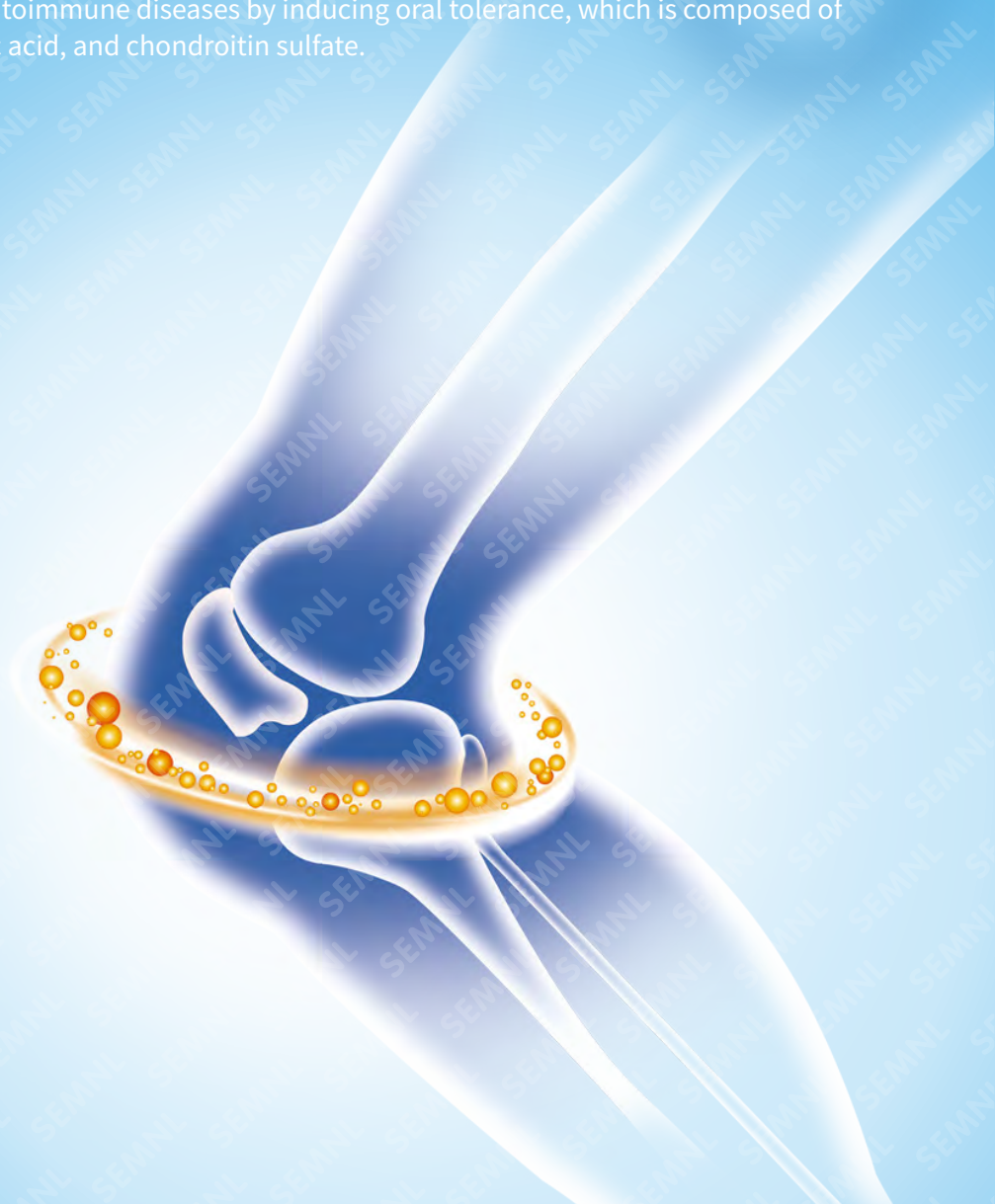


# Hydrolyzed Collagen type II

The articular cartilage is composed mainly of water (75%), collagen type II (15%) and aggrecans (9%) such as hyaluronic acid and chondroitin. Type II collagen is the predominant form of collagen in the sternal cartilage and accounts for approximately 60% of the dry weight of the cartilage. Dietary supplements that contain collagen type II, hyaluronic acid, and chondroitin sulfate may be beneficial during aging and treating joint diseases.

SEMNL Collagen type II is extracted from the cartilage of chicken sternal cartilage and exhibits intriguing possibilities for the treatment of autoimmune diseases by inducing oral tolerance, which is composed of type II collagen peptide, hyaluronic acid, and chondroitin sulfate.



## Product Technical Specification

Test items	Food-grade collagen
Product name	Collagen type II
Color	pale yellow or pale brown
Form	Powder or granules
Oder	Collagen-specific odor, no smell
Protein (dry basis)/ (%)	≥ 60
Chondroitin sulfate (%)	≥ 20
Fat (5)	≤ 2.0
Moisture (%)	≤ 10.0
Ash (%)	≤ 8.0
Lead / (mg/kg)	≤ 0.5
Arsenic / (mg/kg)	≤ 0.5
Mercury / (mg/kg)	≤ 0.3
Total number of colonies (cfu/g)	≤ 1000
Molds and yeast (cfu/g)	≤ 30
Coliform (MPN/g)	≤ 3.0
Pathogenic bacteria (Staphylococcus aureus, Salmomella)	Not detected
Shelf life	36 Months
Storage conditions	Room temperature, dark and dry storage

### High quality material:

The quality of cartilage must meet the import standard of the EU and US, which may assure the safety of our peptide products.

### Efficacy:

- Eliminate the joint pain: Rheumatoid arthritis (RA) is an autoimmune, chronic inflammatory disorder affecting peripheral joints. According to experiments on human body, autoimmunity to an antigen such as cartilage peptide plays a major role in the pathogenesis of RA;
- Stave osteoporosis;
- Maintenance of healthy skin, hair and nails;
- Accelerate fracture healing.

In animal models: transgenic mice hearing partially deleted type II collagen gene showed a temporary impairment of callus remodeling and fracture healing. On the other hand, mice carrying a partially deleted type II collagen gene present phenotypes of chondrodysplasia, with characteristics of dwarfism, thick limbs, and delayed mineralization of bone.