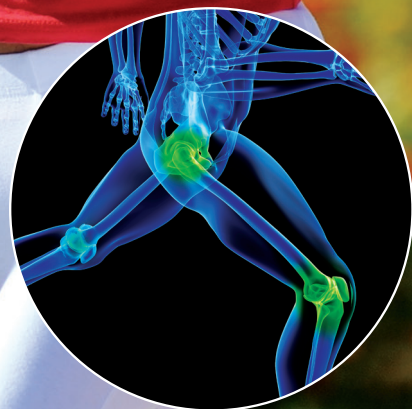


Amaze the World !

Wellnex

Collagen Peptides

Clinically Proven
for Healthy Bones,
Active Joints and
Beautiful Skin.



Wellnex  Nitta Gelatin India Limited

Wellnex™

Collagen

Collagen is the most abundant protein found in living organisms and is made up of eighteen amino acids. With a high tensile strength, it is the main component of fascia, cartilage, ligaments, tendons, bone and teeth. It is even present in the cornea and lens of the eye in crystalline form.

Collagen ensures the cohesion, elasticity and regeneration of skin, cartilage and bones. It strengthens blood vessels and plays a key role in tissue development. Maintaining normal Collagen levels in bone, cartilage, tendons and ligaments is vital to maintain joint health.

Collagen Peptides

Collagen Peptides is the hydrolysed form of Collagen. After hydrolysis, the product loses its gelling ability and makes it soluble in cold water. Collagen Peptides is also known as 'Collagen hydrolysate', 'Gelatin hydrolysate', 'Hydrolysed collagen' etc.

It differs from other proteins as it contains amino acids, Glycine, Proline and Hydroxyproline in a concentration that is around 10-20 times higher than in other proteins. These amino acids play an important role in building fibrous tissues. An insufficient supply of these amino acids results in painful joints, brittle fingernails & hair and wrinkled skin. Many studies indicate that Collagen Peptides has a preventive and regenerative effect on bones, cartilage, tendon, skin etc. Collagen Peptides also contains all the essential amino acids except tryptophan. Its amino acid composition corresponds to that of the cartilage matrix. Thus Collagen Peptides is a 'customised' Collagen building block. It's a natural product produced from natural raw material with no reported side effects. It does not react with drugs or other food or food ingredients.

Functions of Collagen Peptides

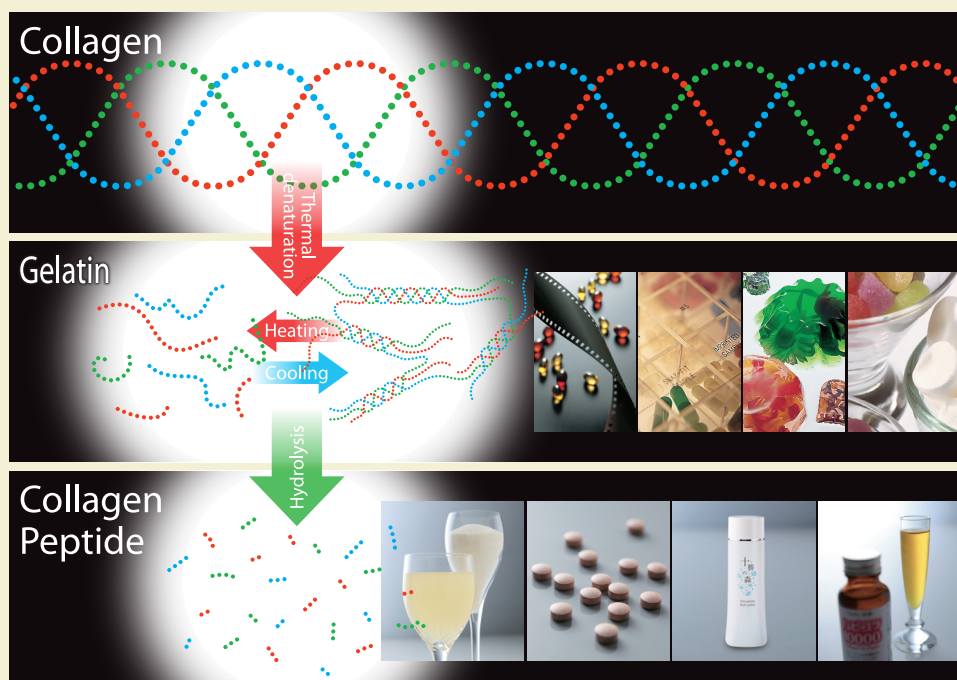
- Stimulates Collagen and glycosaminoglycans synthesis in connective tissues.
- Stimulates the anabolic phases of cartilage matrix turnover; this brings about a phase of regeneration and stability in joint cartilage.
- Improves bone density in patients with Osteoporosis.
- Stimulates collagen synthesis in skin, hair, nails.

Benefits of Collagen Peptides in a glance

- Reduces joint pain and improves joint flexibility in Osteoarthritic patients.
- Enhances bone strength.
- Improves skin texture, moisture content in skin, reduces wrinkle formation.
- Prevents excessive wear and tear of cartilage in sports/ physically active people.

Nutritional composition per 100 g (approx.values)

Energy	372 Kcal
Protein	93 g
Carbohydrates	0 g
Fat	0 g
Cholesterol	0 g
Sodium	0.5 g
Calcium	20 mg
Iron	1 mg





A functional food supplement for joint health

Osteoarthritis is a degenerative joint disease. It's caused by progressive destruction of articular cartilage. Joint cartilage mass mostly consists of Collagen and Proteoglycans. The production of cartilage is regulated by specialised cells called Chondrocytes. In the process of ageing Chondrocytes can't keep up with the natural regeneration process and cartilage starts to break down. Clinical studies indicate that Collagen Peptides stimulates collagen synthesis in Chondrocytes and hence it supports the joint cartilage. The product is gaining wide acceptance across the world as a natural and functional food supplement for joint health without any side effects. Clinical studies recommend that a daily dosage of 10g for three months can be effective and this can be followed by a daily maintenance dose. Being readily soluble in water, it can be mixed with milk, water, juices or any other beverage.

A functional food supplement for Osteoporosis

Osteoporosis is disease of bone that leads to an increased risk of fracture. Osteoporosis reduces the capacity of the bones to fulfil their support function. Today adequate supply of calcium is given as treatment to compensate the mineral loss. Loss of minerals means loss of Collagen also. It is believed that by administering Collagen Peptides, the building blocks required for renewing Collagen are provided and the body then uses it for this purpose.



Collagen Peptides for healthy and younger skin

Collagen makes up 75% of our skin giving strength and durability to skin. It's responsible for smooth, plump appearance of young healthy skin.

Wellnex Collagen Peptides are a patented protein derived from Collagen. It is fast dissolving, has good bioavailability and has minimal colour, odour and flavour. Wellnex Collagen Peptides are suitable for use in a wide range of products including functional foods and cosmetics.

Function of Collagen Peptides in Skin, Hair and Nails:

- Stimulates synthesis of Collagen in skin
- Improves the skin texture and moisture content
- Reduces the formation of wrinkles
- Reduces UV Spots
- Improves the structure of brittle nails
- Improves hair thickness

Collagen Peptides are safe

Collagen Peptides being a product derived from natural Collagen protein, side effects are uncommon, US FDA granted GRAS (Generally Recognised as Safe) status to Collagen derived products. Collagen Peptides are non-allergic, sugar-free and cholesterol-free. According to medical studies, there are no known interactions with other medications or foods.

Characteristics of NGIL Collagen Peptides

- 100% Halal
- Raw material is certified TSE/BSE risk free Gelatin.
- Free flowing spray dried or granule powder.
- Non gelling and low viscosity product.
- Water soluble.
- Composed of proteins to the extent of 90%.
- No preservatives added.
- Does not contain any carbohydrates, fat or cholesterol.
- Better digestion and absorption.

Other applications of Collagen Peptides

Collagen Peptides finds applications in healthcare, personal care and food products. Its applications are tabulated below:

Function	Application
Functional ingredient in nutritional applications	Proteins enrichment, osteoarthritis prophylaxis, substitution of carbohydrates and fats, low fat food, sport nutrition, beauty products.
Increasing solubility and dispersion	Instant teas, protein blends, beverages and shakes.
Emulsification and stabilization	Low-fat sandwich spreads, vitamin embedding, stabilization of low fat cheeses.
Improvement of texture	Hot dogs, cheese spreads, readymade meals, beverages, candy chews, fruit gummies.
Formation and stabilization of foams	Hot dogs, cheese spreads, readymade meals, beverages, candy chews, fruit gummies.
Binding of water	Readymade meals, fresh meat.
Cohesion and adhesion fixing	Cereal bars, protein bars, tablets, licorine, pastilles, panned products.
Coacervation	Clarification of beverages.
As a carrier	Instant teas, pharmaceutical substances, spice plant extracts.
Other applications	Nutrient for cell culture media, pet food ingredients, supplement for intestinal disorders like ulcers.

General specification of NGIL Collagen peptides

Property	Unit	Powder	Granules*
Appearance		White Powder	Free flowing white Powder
Clarity	%	≥90	>80
Moisture	%	<10	<10
Viscosity 15% @ 40°C	mPa.s	2.0-3.0	2.0-3.0
Bulk Density	g/ml	≥0.30	>0.20
Molecular Weight	KDa	3-5	3-5
pH Level		5.5-6.5	5.5-6.5
Total Plate Count		<1000/g	<1000/g
E.Coli		Negative	Negative

*Granule specification varies with the type of flavour and additives added



Nitta Gelatin India Limited

Corp. Office : P B No.: 4262, 54/1446, SBT Avenue, Panampilly Nagar
Kochi 682 036, Kerala, India. Tel : 0484 3099444 Fax : 0484 2310568
Email : mktg@nittagelatin.com | www.gelatin.in