

BIBLIOGRAPHY

1. Moskowitz RW. Role of collagen hydrolysate in bone and joint disease. *Semin Arthritis Rheum.* 2000 Oct;30(2):87-99.

Hydrolysed collagen is interesting as a therapeutic agent that is potentially useful in the treatment of osteoarthritis and osteoporosis. Its high level of safety makes it appealing as an agent suitable for long-term use for these chronic disorders.

2. Colágeno hidrolizado y salud de la piel, resultados de estudios clínicos 2009. Peptan TM

- Peptan aumenta el nive de hidratación de la piel
- El número de surcos decrece significativamente (26%) con Peptan TM después de 12 semanas
- Peptan aumenta la flexibilidad de la piel
- Los estudios clínicos realizados demostraron que PeptanTM, a través de la mejor cohesión de fibras de colágeno, aumenta la suavidad de la piel.

3. Regeneración de la piel en 3 pasos con los péptidos de colágeno (Rousselot)

Peptan TM

- 3.1. Estimula la proliferación de los fibroblastos
- 3.2. Desencadena la síntesis de colágeno
- 3.3. Protege contra el estrés oxidativo

Peptan® marine activates the synthesis of collagen through the fibroblasts. It restores the three-dimensional structure of the skin, increasing the volume of the tissue and giving it cohesion and tonicity. Its effects on the extracellular matrix of the dermis thereby counteract the loss of firmness that occurs over time and which, sometimes, leads to wrinkles.

Therefore, Peptan® marine has an antioxidant effect that protects against the agents that cause free radicals.

4. Fakhari A, Berkland C. Applications and emerging trends of hyaluronic acid in tissue engineering, as a dermal filler and in osteoarthritis treatment. *Acta Biomater.* 2013 Jul;9(7):7081-92. doi: 10.1016/j.actbio.2013.03.005. Epub 2013 Mar 15.

Hyaluronic acid is a biodegradable polymer of natural origin that has a variety of uses in medicine, including scaffolds for tissue engineering, dermal fillers and viscosupplementation for osteoarthritis treatment.

5. Telang PS. Vitamin C in dermatology. *Indian Dermatol Online J.* 2013 Apr;4(2):143-6. doi: 10.4103/2229-5178.110593.

Vitamin C is a powerful antioxidant agent that can be used in dermatology to treat and prevent the changes associated with photoaging.

6. Gopalan A, Reuben SC, Ahmed S, Darvesh AS, Hohmann J, Bishayee A. Food Funct. The health benefits of blackcurrants. *Food Funct.* 2012 Aug;3(8):795-809. doi: 10.1039/c2fo30058c. Epub 2012 Jun 6.

Laboratories have proved the anti-inflammatory, antioxidant, antimicrobial and powerful effects of the contents of blackcurrants on a large number of diseases.

7. Nutrihyl estudios sobre el ácido hialurónico:
 - . The influence of Nutrihyl on experimental adjuvant arthritis
 - . Distribucion of per orally applied Nutrihyl
 - . The influence of Nutrihyl on various inflammatory and degenerative processes in joints and tendons in horses
 - . The influence of Nutrihyl and chondroitin sulphate combination on joints after knee surgery
 - . The influence of Nutrihyl on state of knee joint in ice-hockey players
 - . The influence of Nutrihyl on experimentally cause osteoporosis
 - . The influence of Nutrihyl on skin and hair
 - . Pharmacokinetics of Nutrihyl after per oral use
8. The evidence for clinical efficacy of rose hip and seed: a systematic review, *Phytother. Res.* 20, 1–3 (2006) C. Chrubasik et al.
9. Poster: A new refined Rose hip extract and its anti-arthritis potential, 7. Kongress Phytopharmaka und Phytotherapie – Forschung und Praxis – 10-12. September 2009 Berlin, B. Walbroel, B. Feistel

hialugen colágeno



hialugen colágeno

Improves the skin and skeletal system from within

hialugen colágeno is a dietary supplement that nourishes the joints and skin naturally, helping to keep the body young

Hyalugen **collagen** comes from **hydrolysed marine collagen** which is very rich in essential and non-essential amino acids. It is very soluble, aiding its incorporation in single-dose hyalugen and making it very quick to digest.

Collagen forms around 30% of the proteins in the body. These are resistant, strong structures that are found throughout the whole body: in bones, tendons and ligaments. With wear and tear over time, or due to over exertion, the collagen matrix loses thickness and elasticity, leading to some non-autoimmune rheumatic and arthritic conditions, as well as dermal wrinkles and flaccidity.

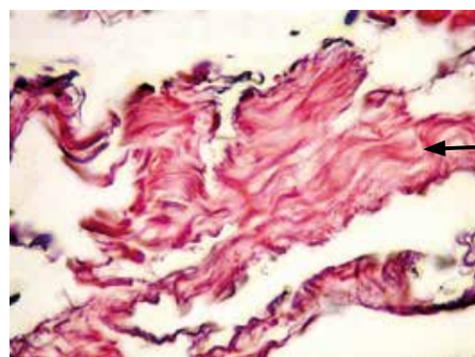
Hyaluronic acid is responsible for various structural properties of tissues. It is used as a dermal filler and in the treatment of osteoarthritis. It is very useful for treating degenerative and inflammatory processes, as well as for treating osteoporosis.

Vitamin C is essential for the synthesis of collagen, whether in bones, cartilage, muscles or blood vessels. It also has an antioxidant function.

Blackcurrants are a natural source of vitamin C, and they have an antioxidant and purifying function because of their flavonoid content (anthocyanins) and other active compounds.

Uses for bones and joints

- As a therapeutic agent used in the treatment of **osteoarthritis** and **osteoporosis**
- For **joint pain** caused by wear and tear, aging or trauma.
- For preventing **joint wear and tear** and injuries, especially for people who over exert themselves physically, like sportspeople.
- For people with **rheumatic** diseases.
- For women going through the **menopause** to prevent joint diseases: the destruction of collagen speeds up with the decrease in oestrogen levels.
- To increase musculoskeletal **resistance**.



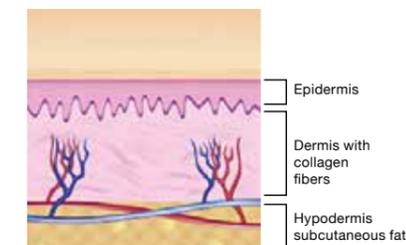
Collagen

Cosmetic uses

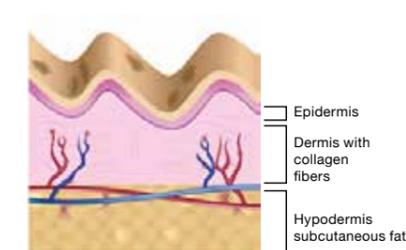
- It has an **anti-flaccidity** effect.
- **Tonification** and thickening of the skin.
- Stimulates the thickening of **hair and nails**.
- Strengthens gums and teeth.
- Antioxidant.
- Gives **vitality** to lacklustre and dehydrated skin.
- Protects skin cells, and prevents **damage** from **UV** rays on the skin.
- Improves the look of **photoaged** skin.
- Improves the **protective barrier** of the skin.
- Reduces **inflammation**.
- Improves the **dermal microcirculation** and makes capillary vessels more resistant.
- **Stimulates** the natural production of **collagen**.
- Improves the effectiveness of **skin peels** and dermabrasion.
- Reduces skin **hyperpigmentation**.

All collagens are contraindicated for people with phenylketonuria, hyperuricemia, kidney failure or liver failure.

Young skin



Adult skin



Ingredients per single-dose

Hydrolysed marine collagen	5 g
Blackcurrant juice	1500 mg
Vitamin C	80 mg (100% *RDA)
Hyaluronic acid	50 mg

*RDA Recommended Daily Allowance

Presentation:

Packet with 18 single-doses.

Directions for use:

Take one dose a day, preferably before going to bed.