

SUMMARY

- In its native form, collagen can be useful as part of a smart, balanced diet
- SatisCOLL® is a novel formulation of collagen with a dual mechanism of action
- The insoluble, slow-digesting protein offers delayed absorption and metabolism

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SatisCOLL® – A NOVEL NATIVE COLLAGEN INGREDIENT

A high molecular weight collagen powder for a balanced diet and a healthy shape

SatisCOLL® is a native collagen source of valuable amino acid building blocks for the body with no adverse effects.

THE ROLE OF NATIVE COLLAGEN

Collagen is a central structural protein of animal tissues, such as skin, bones, muscles and tendons, with a complex and solid triple helix structure. The native form differs from industrial collagens, such as hydrolyzed collagen, which has been processed or modified to improve absorption for use in beauty products or supplements.

In recent years, numerous beneficial effects of diets containing hydrolyzed collagen have been discovered. These include improved skin hydration and elasticity, wrinkle reduction, promotion of cell regeneration, prevention of tissue degeneration, and better recovery from muscle or bone injuries.

We have recently added a new application for collagen through the development of SatisCOLL®, a highly preserved native collagen. SatisCOLL® is an innovative collagen-based product that has been shown to retain water and increase its volume in the acidic pH of the stomach.

This patented collagen powder consists of high-molecular weight, slow-digesting proteins, which absorb water and expand in volume over an extended period in the stomach's acidic environment. SatisCOLL® also serves as a source of collagen peptides that support the optimal condition and renewal of white and connective tissue.

UNIQUE DUAL MECHANISM OF ACTION OF SATISCOLL®

SatisCOLL® is a novel collagen formula with a dual mechanism of action:

1. In the stomach's acidic environment, it absorbs water and increases in volume.
2. Its high molecular weight makes it a slow-absorbing protein, resulting in prolonged retention time.



1. Absorption of water by collagen in the acidic environment of the stomach.
2. Slow digestion and metabolism of collagen in the digestive tract.

In a clinical study published in the journal „Nutrients“¹, a randomized trial conducted over 12 weeks with 64 participants demonstrated that the technologically modified SatisCOLL® (patented) can retain water and expand in volume in an acidic pH environment, such as that of the stomach.¹

ADDITIONAL BENEFITS

SatisCOLL® is a source of protein for all consumers. As a food ingredient, SatisCOLL® offers design flexibility in the manufacture of protein bars, cookies or other dry formats, always providing a protein content of over 96% for premium quality health foods.

FINAL REMARKS

Lifestyle trends that promote wellbeing and a healthy shape are drivers of the global health food market. With SatisCOLL®, the Viscofan group has just introduced a new patented collagen application (PCT/EP2021/075918). Its novel mechanism of action and state-of-the-art manufacturing make SatisCOLL® a unique product on the market – ideal for creating smart, novel protein meals.

LITERATURE REFERENCE

1. López-Yoldi M et al., Anti-Obesity Effects of a Collagen with Low Digestibility and High Swelling Capacity: A Human Randomized Control Trial. *Nutrients* 2024, 16(20):3550; <https://doi.org/10.3390/nu16203550>.