

LACTOFERRIN

novel ingredient



Key Features:

- Easy-to-use odorless powder
- Purity up to 95 %
- High bioavailability
- Suitable for dry blending
- Neutral taste

Lactoferrin is a protein naturally occurring in milk and other human secretions (saliva, tears, etc.).

This glycoprotein has a high iron-binding capacity and provides multiple benefits such as immune and gut health.

Lactoferrin has been proven to have anti-microbial, anti-inflammatory and anti-oxidant properties.

While investigating the efficiency of drinking lactoferrin, researchers discovered the excellent power of lactoferrin when applied to the skin and tooth.

Lactoferrin is approved by **US FDA** and **EFSA** as dietary supplement in food products.

Our ingredient is:

- **IFS Food Certified**
- **Halal and Kosher** certified

LACTOFERRIN IS A KEY INGREDIENT THAT SOLVES AGE-SPECIFIC BEAUTY PROBLEMS

Popular forms for Personal Care applications:

cream/ toothpaste/ shampoo/ spray/ make-up

Recommended dosage: up to 0,5%

Health benefits:

Antibacterial & Antifungal properties

Lactoferrin is best known for its ability to bind iron, which eventually led to the discovery of its antibacterial activity. In addition, lactoferrin has demonstrated potent antiviral, antifungal and antiparasitic activity, towards a broad spectrum of species.

Jenssen H. and R. E W Hancock, Antimicrobial properties of lactoferrin. Biochimie . 2009 Jan;91(1):19-29

Remarkable anti-aging effects

Anti-aging interventions of Lactoferrin (LF) have proven to be safe and effective for various pharmacological activities, such as anti-oxidation, anti-cellular senescence, anti-inflammation, and anti-carcinogenic. LF has a pivotal role in modulating the major signaling pathways that influence the longevity of organisms.

Li B., et al., The effect of lactoferrin in aging: role and potential. Food Funct . 2022 Jan 24;13(2):501-513.

Beneficial effects on skin health (Acne, Psoriasis, Wound healing)

Lactoferrin can regulate the release of cytokines in inflammatory areas, activate immune cells, and inhibit inflammatory diseases caused by non-pathogenic bacteria and the development of tumors. In summary, LF has the treatment effect on P. acnes-induced inflammation, thus providing support for the anti-acne properties of LF.

Su Y., et al., Influence of lactoferrin on Propionibacterium acnes-induced inflammation in vitro and in vivo. Dermatol Ther. 2020 Nov;33(6):e14483.

Prevent hair loss and promote the growth of dermal papilla

Hair loss affects men and women of all ages. Lactoferrin (LF) exhibits a wide range of biological functions, including antimicrobial activity and growth regulation. Bovine LF (bLF) has a great potential of the using in developing drugs to treat hair loss.

Huang H-C., et al., Lactoferrin promotes hair growth in mice and increases dermal papilla cell proliferation through Erk/Akt and Wnt signaling pathways. Arch Dermatol Res. 2019 Jul;311(5):411-420.

Inhibit plaque formation

Lactoferrin (LF) exerts bacteriostatic, bactericidal, antibiofilm, antioxidant, antiadhesive, anti-invasive, and anti-inflammatory activities. Researches report the protective role of LF in different oral pathologies, such as xerostomia, halitosis, alveolar or maxillary bone damage, gingivitis, periodontitis, and black stain.

Rosa L., et al., Lactoferrin and oral pathologies: a therapeutic treatment. Biochem Cell Biol. 2021 Feb;99(1):81-90.

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