Active Concepts

20510PF.

AC Soluble Collagen 1% PF

PROTEINS

CHINA

ISO 16128

Conditioning
Nourishing

actions

WHITE SHEET.

AC Soluble Collagen 1% PF

THE REGULATION.

INCI. Water & Soluble Collagen
CAS. 7732-18-5 & 9007-34-5
EINECS. 231-791-2 & 232-697-4
EUROPE. Compliant
USA. Compliant
CHINA. Compliant

THE SPECIFICATION.

Origin. Botanical/Bacteria/Animal
Natural Antimicrobial. Leuconostoc/Radish Root Ferment Filtrate*
Preservatives. None
Solvents Used. Water
Soluble/Miscible. Water Soluble
Appearance. Colorless, Clear to Slightly Turbid Viscous Liquid
Use Level. 1 - 10 %

* Please note this product contains Leuconostoc/Radish Root Ferment Filtrate (Tradename: M15008-Leucidal® Liquid) - produced by Active Micro Technologies, LLC - containing 18.0–22.0% Phenolics (tested as Salicylic Acid). Please refer Leucidal® Liquid product literature for additional information.

THE STORY.

Degradation of collagen is one of the leading causes of wrinkle formation as it is a natural effect of consumers growing older. Collagen is the most abundant protein in mammals, making up to 30% of whole-body protein content.[1] With age, the production of natural collagen decreases, which is why the cosmetics industry offers products that allow for replenishment of this protein both from the inside and outside.[2] In response to this need, Active Concepts created a bovine collagen-derived ingredient designed to help maintain a youthful and healthy-looking appearance.[1]

Collagen is one of the major protein components of the dermis, defining skin physiology and maintaining its structure along with the elastin fiber network.[3] Bovine extracted collagen is predominantly Type I—the primary collagen type in human skin making it a structurally relevant ingredient for modern skincare formulations.[1] Native proteins and hydrolysates with high molecular weight are also known to be generally preferred in skin care applications for their film-forming properties, with soluble collagen being a traditional example.[4] These particular big molecules have been shown to be able to form a continuous colloidal film on the skin's surface, leaving a smooth feeling on the skin.[4]

Topically applied soluble collagen primarily acts at the skin surface due to its relatively large molecular size, which limits its ability to penetrate the stratum corneum and reach the deeper dermal layers.[2,5] Instead, collagen can form a moisture-retaining film on the skin and bind water within the superficial layers, supporting skin hydration and helping reduce transepidermal water loss.[2,5] This surface-level activity can improve the skin's moisture content and contribute to a smoother, softer, and more supple appearance. Therefore, the primary mechanism of topical soluble collagen is associated with its film-forming and water-binding properties at the skin surface, rather than directly replenishing or stimulating the production of dermal collagen.[2]

Overall, topical soluble collagen offers a valuable approach to supporting skin hydration and conditioning through its surface-level activity.[5] Although its molecular size limits penetration into the deeper layers of the skin, its ability to form a moisture-retaining film and bind water at the skin's surface can help maintain hydration and reduce moisture loss.[2,5] AC Soluble Collagen 1% PF allows you to rejuvenate your skin from within.

References:
1. Noorzai, Safiya, et al. "Collagen extraction from various waste bovine hide sources." Waste and Biomass Valorization 11 (2020): 5687-5698.
2. Jadach, Barbara, Zofia Mielcarek, and Tomasz Osmałek. "Use of collagen in cosmetic products." Current issues in molecular biology 46.3 (2024): 2043-2070.
3. Bhadra, Bhaskar, et al. "A guide to collagen sources, applications and current advancements." Systematic Bioscience and Engineering (2021): 67-87.
4. Secchi, Gianfranco. "Role of protein in cosmetics." Clinics in dermatology 26.4 (2008): 321-325.
5. Aguirre-Cruz, G., León-López, A., Cruz-Gómez, V., Jiménez-Alvarado, R., & Aguirre-Álvarez, G. (2020). Collagen Hydrolysates for Skin Protection: Oral Administration and Topical Formulation. Antioxidants, 9(2), 181. https://doi.org/10.3390/antiox9020181

Active Concepts LLC
Lincolnton, NC - USA
Tel +1 704-276-7100
info@activeconceptsllc.com

Active Concepts SRL
Bareggio, (Milano) Italy
Tel +39 02 90360719
info@activeconcepts.it

Active Concepts LLC, Asia
Kaohsiung, Taiwan
Tel + 886 73599900
info-asia@activeconceptsllc.com.tw

Website
www.activeconceptsllc.com

Social Media
@activeconceptsglobal