

20597PF.

AC Foaming Collagen PF

Anti-Frizz
Hair Shine
Conditioning



SEPHORA
CLEAN



CREDO
CLEAN



ISO 16128



THE FEATURES. _____

Collagen has a longstanding identity in the beauty industry because of its familiar connection to the skin and hair. AC Foaming Collagen PF translates this established story into a modern ingredient format. It begins with bovine collagen sourced from cow skin, which undergoes enzymatic hydrolysis before being reacted with coconut oil to form a derivative that provides an accessible path for incorporating collagen into modern cosmetic formulations.

INCI: Potassium Cocoyl Hydrolyzed Collagen

TECHNICAL DATA SHEET.

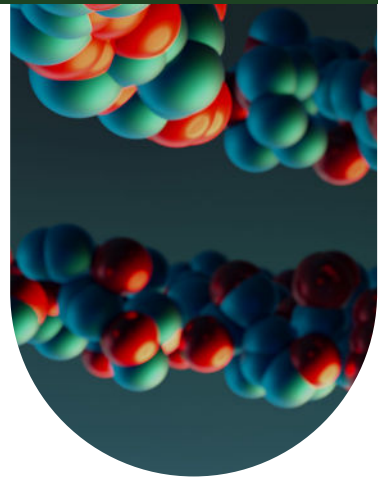
AC Foaming Collagen PF

THE STORY.

Collagen's presence in mainstream beauty culture has grown well beyond the treatment aisle. Collagen powders, "beauty from within" drinks, and gummy supplements have become fixtures of the wellness market, while formulations across skin and hair care continue to lean on collagen adjacent language as shorthand for structure and resilience.¹ In hair care specifically, collagen's fibrous, protein rich composition has made it a natural point of reference for hair care positioning. Hair itself is largely composed of keratin, another structural protein, which is part of why collagen derived ingredients have found a home in strengthening and conditioning concepts.^{1,2}

The story of how collagen became usable in cosmetics is really incomplete without the story of hydrolysis. Native collagen's triple helix structure, while suited to the tensile demands of connective tissues, presents limitations for incorporation into many cosmetic formulations.¹ Published research has shown that enzymatic hydrolysis offers a more controlled alternative, using targeted enzymes to break down collagen more selectively and produce lower molecular weight peptide fragments.³ This transformation helped expand the versatility of collagen derivatives for cosmetic applications, providing a more formulation friendly alternative to native collagen.^{1,3}

AC Foaming Collagen PF represents this evolution: a historically grounded ingredient shaped by a technologically advanced approach, engineered to meet the formulation and performance needs of today's consumer.



THE SCIENCE.

Within the hair follicle, collagen forms part of the extracellular environment surrounding key follicular structures. Types I and III collagen have been identified within the dermal sheath and dermal papilla of human hair follicles throughout the hair cycle, demonstrating collagen's biological relevance to the follicular environment.⁴ The hair fiber itself is predominantly composed of keratin, a structural protein that provides much of the fiber's mechanical strength and integrity. This protein rich composition has supported the use of protein derived materials in hair care, particularly hydrolyzed proteins and peptides designed to interact with the hair fiber.² Hydrolyzed collagen derivatives have similarly been investigated for their interaction with hair, providing a foundation for their use in hair care applications.¹

Collagen can be further adapted through chemical modification. Research on collagen hydrolysate based materials has shown that introducing lipophilic, fatty acid derived groups can alter interfacial properties, including foamability and foam stability.⁵ These findings demonstrate how modification of collagen hydrolysates can extend their functionality beyond the properties of the native protein and tailor their behavior for cosmetic formulation.

AC Foaming Collagen PF applies this approach beginning with bovine collagen sourced from cow skin, which undergoes enzymatic hydrolysis followed by fatty acid modification to create a collagen derivative designed for hair care formulations. This approach builds upon collagen's long established relevance as a structural protein while using biotechnology to tailor its properties toward the performance and resilience needs of the hair fiber.

THE TECHNICAL DETAILS.

INCI. Potassium Cocoyl Hydrolyzed Collagen

CAS. 68920-65-0

EINECS. N/A

EUROPE. Compliant

USA. Compliant

CHINA. Compliant

Origin. Botanical/Animal/Bacteria

Natural Antimicrobial. Lactobacillus Ferment

Preservatives. None

Solvents Used. Water

Appearance. Clear to Slightly Hazy Liquid

THE FORMULATION TIPS.

pH Stability. 4 - 7

Temperature Stability. During storage, please prevent exposure above 25°C. When formulating, please prevent extended exposure above 50°C, as exposure to higher temperatures may cause browning.

Use Level. 1 - 10%

Ionic State. Anionic

Alcohol Compatibility. Incompatible with alcohol

Solubility. Water Soluble

Pro Tips. It is recommended that this product is added to the batch in cooldown to maintain appearance.

THE BENEFITS OVERVIEW.

Stylist Approved Salon Half-Head Study



THE EFFICACY.

Stylist Approved

A Salon Half-Head Study was conducted to evaluate the perceived hair benefits of AC Foaming Collagen PF in a shampoo and conditioner on wet and dry hair. These results indicate AC Foaming Collagen PF improves the perceived benefits with wet and dry hair when added to shampoo and conditioner at recommended use levels. Collectively, AC Foaming Collagen PF demonstrates visual and perceived hair characteristics which contribute to a healthier looking hair appearance.



Baseline



Base Shampoo and
Base Conditioner

2.0% AC Foaming
Collagen PF

Improved
shine
by +50%



Baseline



Base Shampoo and
Base Conditioner

2.0% AC Foaming
Collagen PF

Enhanced
overall feel
by +47%

References:

1. Jadach, Barbara, et al. "Use of Collagen in Cosmetic Products." *Current Issues in Molecular Biology* 46.3 (2024): 2043-2070. doi:10.3390/cimb46030132.
2. Yeo, Jingjie, et al. "Multiscale Modeling of Keratin, Collagen, Elastin and Related Human Diseases: Perspectives from Atomistic to Coarse-Grained Molecular Dynamics Simulations." *Extreme Mechanics Letters* 20 (2018): 112-124. doi:10.1016/j.eml.2018.01.009.
3. López-Morales, Carlos A., et al. "Determination of Peptide Profile Consistency and Safety of Collagen Hydrolysates as Quality Attributes." *Journal of Food Science* 84.3 (2019): 430-439.
4. Messenger, A. G., et al. "Expression of Basement Membrane Proteins and Interstitial Collagens in Dermal Papillae of Human Hair Follicles." *Journal of Investigative Dermatology* 96.1 (1991): 93-97.
5. Li, Yun, et al. "Preparation of Polypeptide Surfactants Using Chromium-containing Waste Leather: Effect of Hydrophilic and Lipophilic Groups." *Journal of Surfactants and Detergents* 24.6 (2021): 923-931.

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