

# AC Keratin Hydrolysate 30 PF

Moisturization + Conditioning + Protection



Tomorrow's Vision... *Today!*<sup>®</sup>



# AC Keratin Hydrolysate 30 PF

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## Technical Information:



**Product Code:** 20586PF

**INCI Name:** Hydrolyzed Keratin

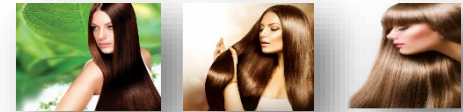
**INCI Status:** Conforms

**Suggested Use Level:** 1.0 – 5.0%

**Suggested Applications:** Moisturizing, Conditioning, Protection

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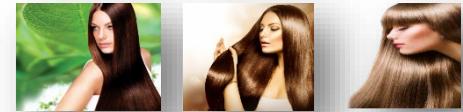
## Science



- Keratin is the basic building material for most of the visible parts of the body
- Exists naturally as a cross-linked helical structure
  - It is the cross-linkage that accounts for the strength and extensibility of the individual hair fibers
- Cross-linking occurs at disulfide bridges which anneal adjacent cysteine residues to form cysteine
- Keratin can be hydrolyzed like any other protein and modified thereafter to achieve a variety of different functions

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## Science

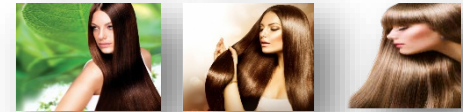


- An aqueous solution with an average molecular weight of approximately 2000 Daltons
  - Hydrolyzed keratin does not penetrate the skin or hair, but rather plates out to form tenacious films
- An ideal ingredient that increases shine and improved feel
- The film forming properties of **AC Keratin Hydrolysate 30 PF** translates into longer-lasting and more stable foam structures

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## Benefits



- Stabilizes foam structures
- Nourishes scalp
- Reduces irritation
- Strong conditioning
- Increases shine and improves feel

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## Foam Stabilization

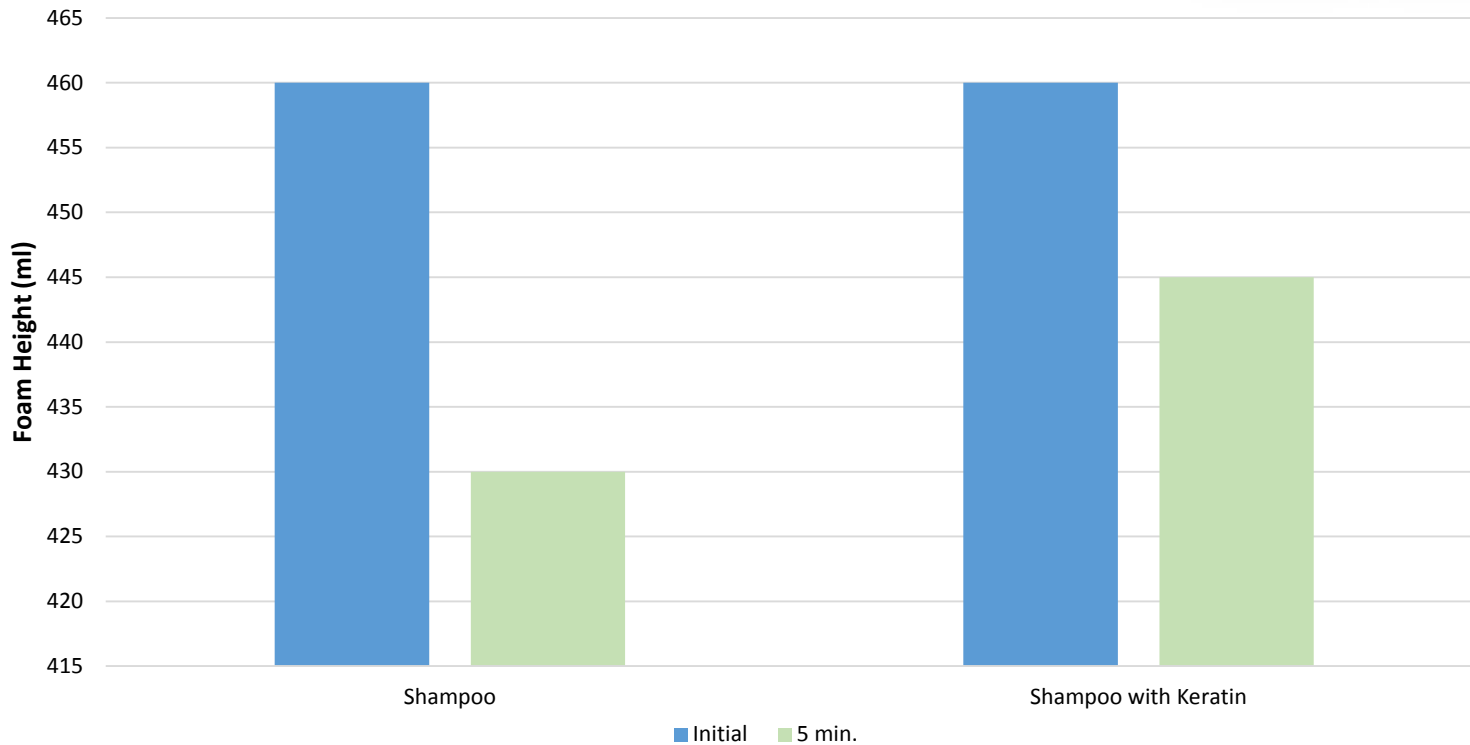
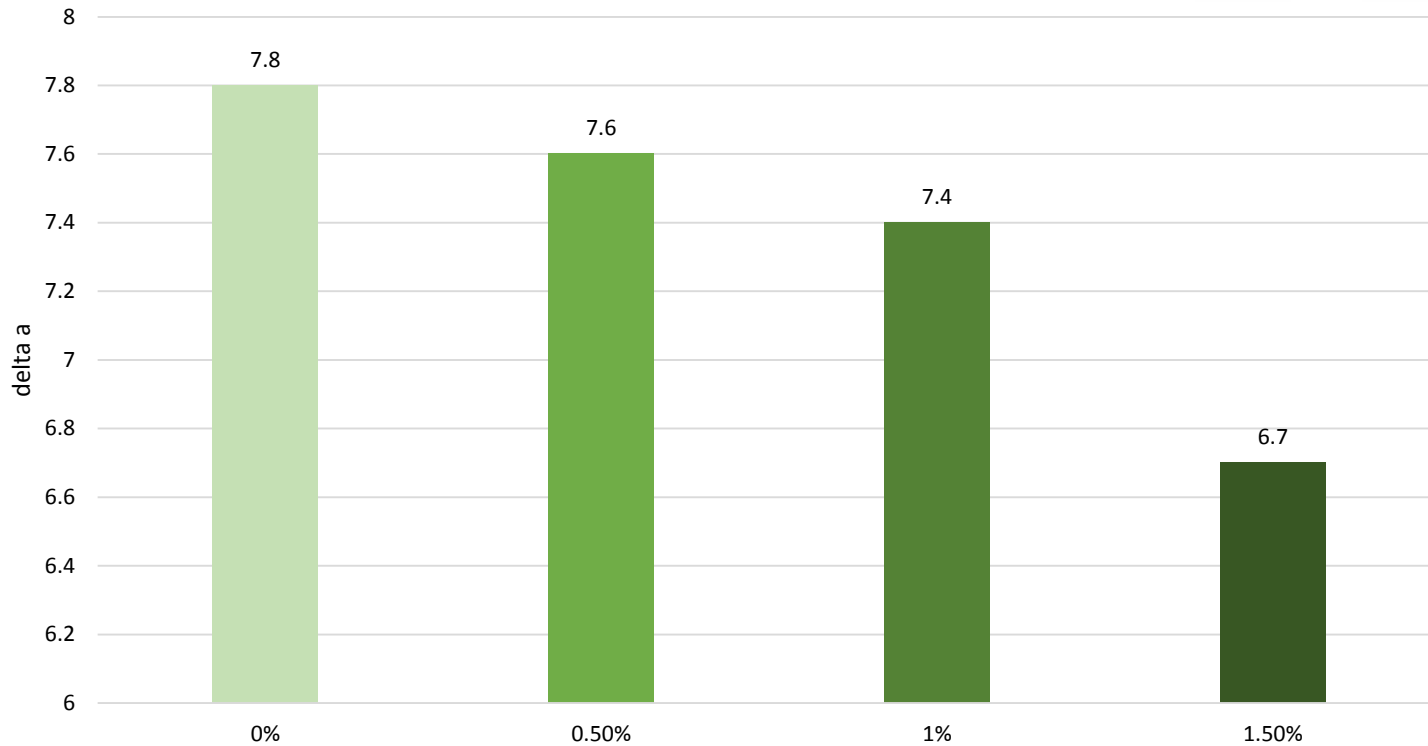


Figure 1. Results of foam stabilization following application of keratin and a control

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## *In-vivo* Irritation Reduction

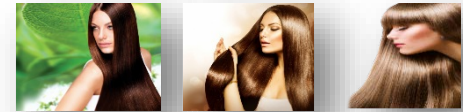


**Figure 2.** Results of the reduction in irritation using different concentrations of protein

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# ACTIVE CONCEPTS LLC

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## THANK YOU

Please visit and register to use our new website at

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When you register, you will have access to the complete product documentation available.