AC Keratin Hydrolysate 30 PF
Moisturization + Conditioning + Protection

Tomorrow’s Vision... Today!®
AC Keratin Hydrolysate 30 PF

Technical Information:

**Product Code:** 20586PF

**INCI Name:** Hydrolyzed Keratin

**INCI Status:** Conforms

**Suggested Use Level:** 1.0 – 5.0%

**Suggested Applications:** Moisturizing, Conditioning, Protection
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
AC Keratin Hydrolysate 30 PF

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
AC Keratin Hydrolysate 30 PF

Benefits

• Stabilizes foam structures
• Nourishes scalp
• Reduces irritation
• Strong conditioning
• Increases shine and improves feel
Figure 1. Results of foam stabilization following application of keratin and a control

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Foam Stabilization

Shampoo

Shampoo with Keratin

Foam Height (ml)

Initial 5 min.

Figure 1. Results of foam stabilization following application of keratin and a control
**AC Keratin Hydrolysate 30 PF**

*In-vivo* Irritation Reduction

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

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Delta a</th>
</tr>
</thead>
<tbody>
<tr>
<td>0%</td>
<td>7.8</td>
</tr>
<tr>
<td>0.50%</td>
<td>7.6</td>
</tr>
<tr>
<td>1%</td>
<td>7.4</td>
</tr>
<tr>
<td>1.50%</td>
<td>6.7</td>
</tr>
</tbody>
</table>
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THANK YOU

Please visit and register to use our new website at www.activeconceptsllc.com

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