Acetyl tetrapeptide-5

**INCI name:** Acetyl tetrapeptide-5

**Peptide Sequence:** Ac-beta-Ala-His-Ser-His-OH

**Molecular Formula:** C₂₀H₂₈N₆O₇

**Molecular weight:** 492.5

**Cas No.:** 820959-17-9

**Application:** Cosmetics – puffiness under the eyes

**Packaging:** bottle

**Filling quantity:**
- 1 g / bottle
- 5 g / bottle
- 10 g / bottle
- 100 g / bottle
- special packaging upon request

**Storage and Shelf life:** 2 - 8 °C, dark and clean shelf life 24 months.
Product Specification

**Acetyl tetrapeptide-5**

Manufacturing date: 23.07.2017
Expiry date: 22.07.2019

<table>
<thead>
<tr>
<th>Test</th>
<th>Specification</th>
<th>Batch No. 20170723</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white powder</td>
<td>conforms</td>
</tr>
<tr>
<td>Identity</td>
<td>492.5 ± 1</td>
<td>492.6</td>
</tr>
<tr>
<td>Solubility</td>
<td>soluble in water</td>
<td>conforms</td>
</tr>
<tr>
<td>Amino acid composition</td>
<td>± 10 % of theoretical</td>
<td>conforms</td>
</tr>
<tr>
<td>Peptide purity (by HPLC)</td>
<td>≥ 95.0 % by area integration</td>
<td>99.37 %</td>
</tr>
<tr>
<td>Water content (Karl Fischer)</td>
<td>≤ 8.0 %</td>
<td>4.33 %</td>
</tr>
<tr>
<td>Acetate content</td>
<td>≤ 15.0 %</td>
<td>11.72 %</td>
</tr>
</tbody>
</table>

**Characteristics**
- Acetyl tetrapeptide-5 inhibits collagen glycation avoiding skin losing elasticity and subsequent eyebags formation.
- Acetyl tetrapeptide-5 prevents liquid accumulation in eyebags
- Acetyl tetrapeptide-5 shows a slight lightening effect which decreases dark circles under the eyes.
Use level: 0.01 % (maximum dose is 0.1 %)

**Cosmetic benefits**
The draining effect of Acetyl tetrapeptide-5 achieves a reduction of puffy eyebags in only 15 days-fast anti-eye bag action. It can be used in emulsions, gels, sera, etc., for reduction of puffiness under eyes.