

# Pentapeptide-3

<b>INCI</b>	Pentapeptide-3
<b>Peptide Sequence:</b>	H-Gly-Pro-Arg-Pro-Ala-NH <sub>2</sub>
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>37</sub> N <sub>9</sub> O <sub>5</sub>
<b>Molecular weight:</b>	495.58
<b>Cas No.:</b>	725232-44-0
<b>Synonym:</b>	Vialox
<b>Application:</b>	cosmetics
<b>Packaging:</b>	bottle
<b>Filling quantity:</b>	1 g / bottle 5 g / bottle 10 g / bottle 100 g / bottle special packaging upon request
<b>Storage and shelf life:</b>	cool, dark and clean place -20°C shelf life 24 months 2 - 8 °C shelf life 12 months



# Product Specification

## Pentapeptide-3

Test	Specification	Batch YS1802PP3
Appearance	white powder	conforms
Identity by HPLC	the retention is same with the reference substance	conforms
Identity by MS	495.58±1	conforms
Solubility	soluble in water	conforms
Peptide purity (by HPLC)	≥ 95 % by area integration	99.57 %
Water content (Karl Fischer)	≤ 8 %	5.19 %
Amino acid composition	± 10 % of theoretical	conforms

### Characteristics:

Pentapeptide-3 is an antagonist of acetylcholine.

Use level: 0.005 – 0.01 % (water soluble)

It can be incorporated in cosmetic formulations for removal of wrinkles, especially in the forehead and around the eyes at the stage of the manufacturing, provided the temperature is below 40 °C.

### Cosmetic benefits

Pentapeptide-3 reduces the depth of wrinkles caused by the contraction of muscles of facial expression, decreasing neuron excitability and modulating acetylcholine secretion.

