



## Rayaxyl 3000

**INCI name:**

**Palmitoyl oligopeptide  
Palmitoyl tetrapeptide-7**

Peptide Sequence:

Pal-Gly-His-Lys-OH, Pal-Gly-Gln-Pro-Arg-OH

Molecular Formula:

$C_{30}H_{54}N_6O_5$ ,  $C_{34}H_{62}N_8O_7$

Molecular weight:

578.79, 694.91

Cas No.

147732-56-7, 221227-05-0

Application:

Cosmetics – anti-aging / face lifting and wrinkle treatment (suitable for gels, serums, lotion and creams.

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 Spezifikation **Rayaxyl 3000**

Manufacturing date: 16.09.2019

Expiry date: 15.09.2021

Test	Specification	Batch No. YS1909M3000
Appearance	white powder	conforms
Identity by HPLC	the retention is the same with the reference substance	conforms
Identity by MS	578.8 ±1 694.9 ±1	conforms
Solubility	insoluble in water	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95,0 % by area integration	98,11 %
Water content (Karl Fischer)	< 8,0 %	6,05 %
Acetat content	< 15,0 %	10,78 %
Pal-GHK: Pal-GQPR (mol/mol)	1,8 – 2,2	2

### Characteristics

Matrikines are the messenger peptides capable of regulating cell activities by interacting with their specific receptors. They activate certain genes involved in the process of extracellular matrix renewal and cell proliferation. These mechanisms become weaker and weaker with age. Palmitoyl Oligopeptide stimulates collagen and glycosaminoglycan synthesis, reinforces the epidermis and diminishes wrinkles. Palmitoyl Tetrapeptide-7 delays the effects of premature aging, improves elasticity and firmness.

Use level: 0.002 – 0.005 % for Palmitoyl Oligopeptide, Palmitoyl Tetrapeptide-7 powder maximum dose: 0.02 %

### Cosmetic benefits

Palmitoyl Oligopeptide and Palmitoyl Tetrapeptide-7 support the activation of the cutaneous repair process, and in particular at the level of the fragile and UV-damage prone papillary dermis. It promotes wrinkle smoothing and improves tone and elasticity.