



Hexapeptide-9

INCI name:	Hexapeptide-9
Peptide Sequence:	Gly-Pro-Gln-Gly-Pro-Gin
Molecular Formula:	$C_{24}H_{38}N_8O_9$
Molecular weight:	582.61
Cas No.	1228371-11-6
Synonym:	Collaxyl
Application:	Cosmetics
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle special packaging upon request
Storage and Shelf life:	2 - 8 °C cool, dark and clean shelf life 24 months

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Product Specification

Hexapeptide-9

Manufacturing date: 03.04.2019

Expiry date: 02.04.2021

Test	Specification	Batch YS1904HP9
Appearance	white powder	conforms
Solubility	soluble in water	conforms
Identity (by HPLC)	the retention is same with the reference substance	conforms
Identity by MS	495.58 ± 1	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	> = 95.0 % by area integration	98.8 %
Water content (Karl Fischer)	< = 8.0 %	3.22 %
TFA content	< = 15 %	9.95 %

Characteristics

Hexapeptide-9 is derived from collagen XVII. Hexapeptide-9 stimulates extracellular matrix protein synthesis and skin repair. Hexapeptide-9 is unique in its capacity to regenerate both epidermis and dermis. It rapidly decreases the appearance of skin wrinkles, enhance epidermal repair and dermal protein synthesis (collagen I and II), improves the dermal-epidermal junction structure (laminin-5, integrin, collagen IV) and epidermal differentiation marks (keratin, filaggrin).

Use level: 0.002 – 0.01 %