

TWO MATRIKINES TO FIGHT SIGN OF AGEING

Function and Characteristics:

MATRIXYL 3000 contains the matrikines Pal-GHK and Pal-GQPR acting in synergy to repair the cutaneous damages of age.

Cosmetic interest (properties):

Matrikines of MATRIXYL 3000 are messengers of cutaneous restructuring and repair. They activate the neosynthesis of extracellular matrix macromolecules providing MATRIXYL 3000 with a visible anti-wrinkle efficacy.

Applications:

Anti-wrinkle products.

Recommended use level: 3%

CTFA / INCI name:

Glycerin - Water (Aqua) - Butylene Glycol - Carbomer - Polysorbate 20 - Palmitoyl Oligopeptide - Palmitoyl Tetrapeptide-3

Appearance	: opalescent gel
Colour	: whitish
Odour	: characteristic
pH	: 4.0 - 6.0
Density d_{20}^{20}	: 1.140 - 1.160
Refractive index (at 25°C)	: 1.425 - 1.445
Water content (K. Fisher)	: 20 - 30%
Pal-GHK content	: 90 - 130 ppm
Pal GQPR content	: 40 - 70 ppm
Bacteria	: < 100 germs/g
Yeast and moulds	: < 10 germs/g

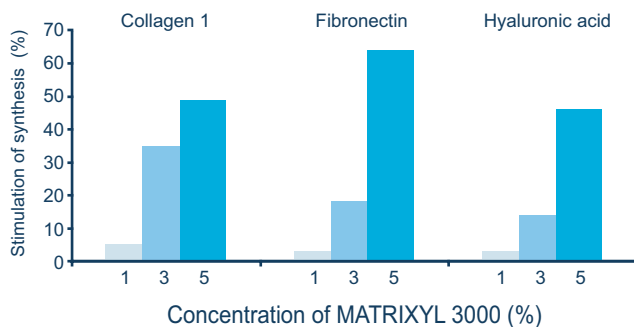
Sederma patent: US 2004/0132667

CLAIM SUBSTANTIATION

IN VITRO

Synthesis of matrix macromolecules:

Study of the stimulation of synthesis of extracellular matrix components by fibroblasts incubated for 72 hours with MATRIXYL 3000 (1, 3, 5%).



Stimulation of gene expression:

Study of the regulation of dermal and epidermal genes by matrikines from MATRIXYL 3000, using DNA-Array technique on reconstructed epidermis and on fibroblast culture.

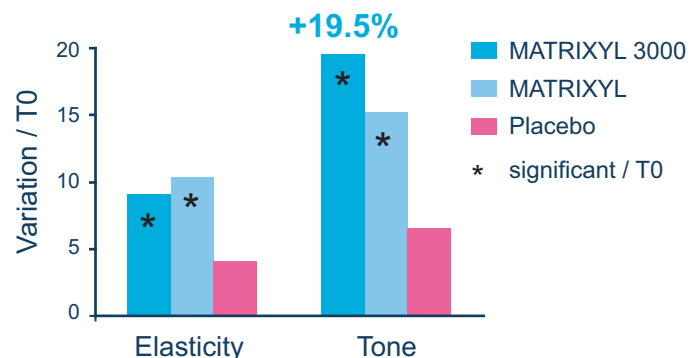
Matrikines from MATRIXYL 3000 show a complementary gene activation profile with respect to the major mechanisms involved in cutaneous restructuring.

IN VIVO

Effect on skin tone and elasticity

2 groups of 23 volunteers aged between 39 and 74 years / Twice daily application to one half of the face a cream containing 3% of MATRIXYL 3000 or 3% of MATRIXYL against placebo, for 2 months. Assessment of elasticity and tone by cutometry on the same group as above.

With MATRIXYL 3000, skin tone and elasticity displayed a major and significant improvement.



Anti-wrinkle efficacy

2 groups of 23 volunteers aged between 39 and 74 / Twice daily application to one half of the face a cream containing 3% MATRIXYL 3000 or 3% MATRIXYL against placebo, for 2 months. Assessment of the anti-wrinkle efficacy by profilometry and photography compared to T0.

Variation of parameters compared to T0 (%)	MATRIXYL 3000	MATRIXYL	Placebo
Surface occupied by deep wrinkles (>200µm)	- 44.9**	-27.7**	4.3 ^{ns}
Main wrinkle density	- 37.0**	-27.3*	-9.6 ^{ns}
Main wrinkle average depth	- 15.1**	-9.8**	-3.2 ^{ns}
Main wrinkle average volume	- 18.5**	-14.7**	-8.7*
Roughness	- 14.4**	-10.8**	1.4 ^{ns}
Complexity (Lifting effect)	- 16.6**	-12.7**	4.2 ^{ns}

ns : non significant *significant / T0 (p<0.05) **significant/ T0 (p<0.01)

T0 MATRIXYL



T56 MATRIXYL



T0 MATRIXYL 3000



T56 MATRIXYL 3000

