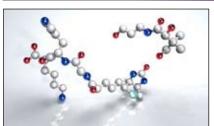
Patents N° FR 2 791 684

WO 00/58347 US 2006/0067905 WIDELASHTM Patent pending.



Biotinyl-GHK and panthenol

Function:

Eyelash conditioner.

Definition:

Vitaminated matrikine biotinyl-Gly-His-Lys in association with provitamin B5 (panthenol).

Properties:

Widelash[™] helps eyelashes appear longer, fuller and stronger.

Characteristics:

Widelash™ promotes hair bulb keratinocyte proliferation and ensures optimal hair anchorage by stimulating the synthesis and organisation of the adhesion molecules laminin 5 and collagen IV.

Points of interest:

The tripeptide GHK, naturally found in the human body, promotes the woundhealing processes.

INCI Name:

Glycerin - Water (Aqua) - Panthenol -Biotinoyl Tripeptide-1

Applications:

Mascaras, eyelash conditioners, eye make-up removers.

Formulation:

Water soluble

Recommended use level:





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In vitro tests

Mitosis rate

Evaluation on root sheath keratinocytes after a 14-day culture of hair follicles. Biotinyl-GHK (2 ppm) stimulates Ki-67 expression, indicating enhanced cell proliferation.

Stimulation of hair growth

Hair follicules are incubated for 14 days with biotinyl-GHK 2 ppm

Hair anchorage

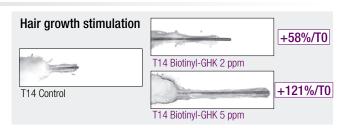
Hair follicles are incubated for 14 days with biotinyl-GHK (2 ppm).

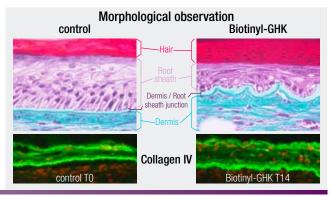
- Morphological observation of the dermis/root sheath junction.

The persisting dermis/root sheath junction is thicker and recovers its normal sinusoidal shape.

- Laminin 5 and collagen IV are revealed by immunofluorescence.

Presence of adhesion molecules			
Adhesion molecules	T14 Control	T14 Biotinyl-GHK	
Laminin 5	+	+++	
Collagen IV	+	++++	



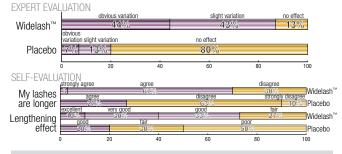


Clinical study

Double-blind clinical study with 30 female volunteers applying daily a Volumising Black Mascara containing 2% Widelash™ on one eye *versus* Volumising Black Mascara placebo on the other one. Measurements by image analysis at T0, 15 days and 30 days. Evaluation by trained experts and self-evaluation after 30

Length of the eyelashes

- +11%/T0, p<0.001, up to +32%, x2.6/placebo
- T 30 days +17%/T0, p<0.001, up to +43%, x2.7/placebo

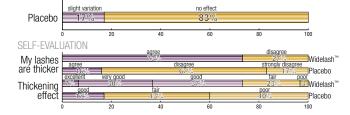




Widelash™ visibly strengthens and lengthens eyelashes.

Diameter of the eyelashes

- +12%/T0, p<0.001, up to +33%, x2.9/placebo T 30 days +19%/T0, p<0.001, up to +40%, x2.6/placebo
- EXPERT EVALUATION



Strengthening effect

Loss of eyelashes: T 15 days

breakage/loss

Widelash™

 T 30 days -9.1 eyelashes/placebo, p<0.001 SELF-EVALUATION My lashes are nourished Placebo Widelash My lashes are fortified Placebo Widelash Prevents

Formulation

Primer mascara with WIDELASH™

Suggested formula Ref.: SED1011911 L

-3.7 eyelashes/placebo, p<0.001

Placebo

Part A	% 40.00 0.30
Part B Water deionized PVP K30	% qsp 100 2.00
Part C	0.10
Part D Water deionized	% 3.50

Sodium hydroxide 30%	0.35
Part E	%
Butylene Glycol	3.00
Preservative	qs
Natrosol 250 M (Hydroxyethyl Cellulose, Aqualon)	0.75
Part F	%
Alcohol	5.00
Part G	%
Widelash™ (Sederma)	2.00
Management. This force delice has been explicated finited at high tests and has been	

Protocol:

Part A: disperse the carbomer in the water and allow swelling for 1 hour without stirring. Part B: disperse the PVP K30 in the water with rapid helix stirring (s=600 rpm) and keep on stirring for 30 minutes. Add Part C into Part A with helix stirring (s=500 rpm). Add Part D into Part A+C with blade stirring (s=200 rpm). Weigh and mix Part E. Combine Part E with Part B with helix stirring (s=500 rpm). Allow swelling during 30 minutes. Add Part B+E into Part A+C+D with blade stirring (s=200 rpm) mix well. Add Part F and mix well. Check pH. Add Part G, mix well. Add Part H, mix well.



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