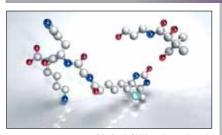


WIDELASH™

eyelashes sollonged for



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:

(Check PCPC on-line dictionary for latest INCI name)

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

Applications:

Mascaras, eyelash conditioners, eve make-up removers.

Formulation:

Water soluble

Recommended use level:

2%

Patents:

FR 2 974 297 W0 2012/143845 EP 2 699 223





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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

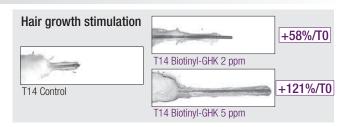
Hair follicles are incubated for 14 days with biotinyl-GHK (2 ppm).

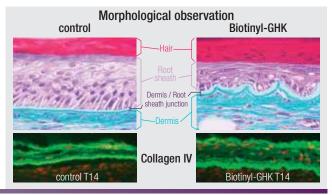
- Morphological observation of the dermis/root sheath junction.

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	+	++++	



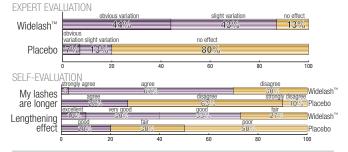


Clinical study

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 days.

Length of the eyelashes

- +11%/T0, p<0.001, up to +32%, x2.6/placebo T 15 days
- T 30 days +17%/T0, p<0.001, up to +43%, x2.7/placebo

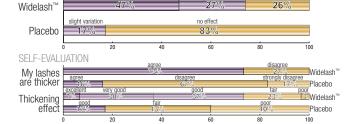




Widelash[™] visibly strengthens and lengthens eyelashes.

Diameter of the eyelashes

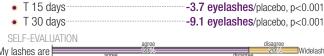
- +12%/T0, p<0.001, up to +33%, x2.9/placebo +19%/T0, p<0.001, up to +40%, x2.6/placebo
- T 30 days

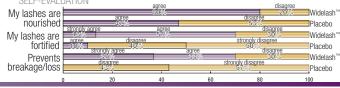


Strengthening effect

Loss of eyelashes:

EXPERT EVALUATION





Formulation

Primer mascara with WIDELASH™

Suggested formula Ref.: SED1011911 L

Part A	%
Water deionised	40.00
Optasense [™] G83 (Carbomer, Croda)	0.30
Part B	%
Water deionised	qsp 100
PVP K30	2.00
Part C	%
Potassium Sorbate	0.10
Part D	%
Water deionised	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

Fragrance (Douceur Bleuet) (Expressions Parfumées) 0.10

Protocol: Part A: disperse the carbomer in the water and allow Protoco: 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 pm) and keep on stirring for 30 minutes. Add Part C into Part A with helix stirring (s=500 pm). Add Part D into Part A+C with blade stirring (s=200 pm). Weigh and mix Part E. Combine Part E with Part B with helix stirring (s=500 pm). Allow swelling during 30 minutes. Add Part B+E into Part A+C+D with blade stirring (s=200 pm) mix well. Add Part F and mix well. Check pH. Add Part G, mix well. Add Part H, mix well.



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