

Active Beauty
PrimalHyal™ 300
Reinforcement of the skin natural defense
and wound healing

Crafted by white technology



PrimalHyal™ 300

Reinforcement of the skin natural defense & wound healing



PrimalHyal™ 300 is a average molecular weight Hyaluronic Acid (HA) (100-300 kDa) obtained by biotechnology. This specific HA grade helps to maintain an effective skin defense level against harmful bacteria contamination. It also boosts the wound healing process.

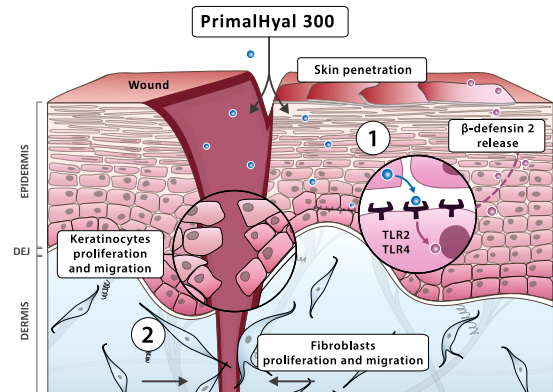
Double action for skin protection & repair

1. Stimulation of skin defenses:

PrimalHyal™ 300 reinforces the natural immune system by stimulating the release of specific antibacterial peptides, the β -defensin 2 (DEFB2).

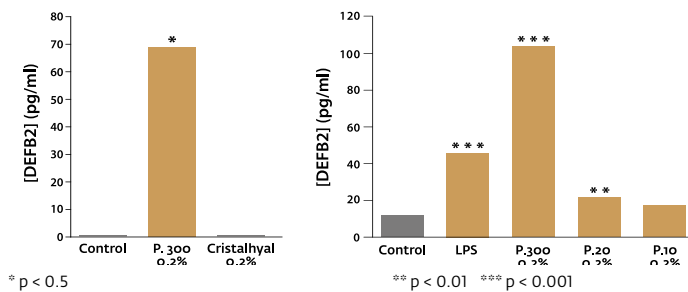
2. Cellular repair and wound healing:

In case of a lesion, PrimalHyal™ 300 stimulates the keratinocytes and fibroblasts proliferation and migration to accelerate the cellular reparation process.



Stimulation of β -defensin 2 release (In vitro test)

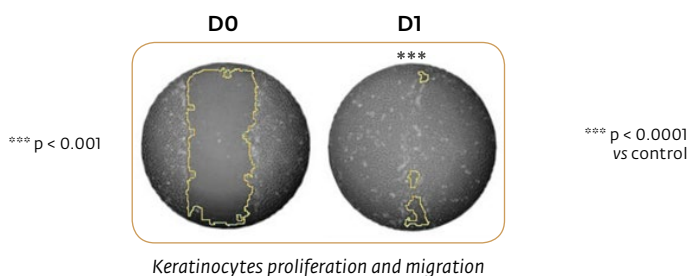
Confluent keratinocyte cultures were treated with PrimalHyal™ 300 for 18 hours. DEFB2 release was assessed in the supernatants by ELISA kit.



DEFB2 release is specifically induced by PrimalHyal™ 300.

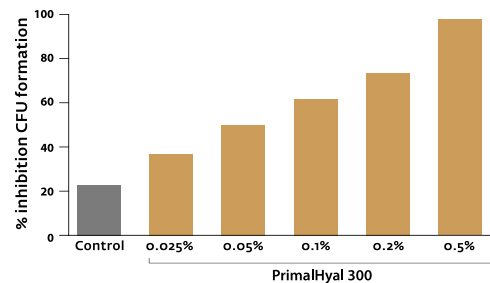
Specific healing activity (In vitro tests)

A wound is made on a monolayer of confluent keratinocytes. The cells are then treated with 0.2% of PrimalHyal™ 300. The width between the edges of the wound is measured at D0 and D1.



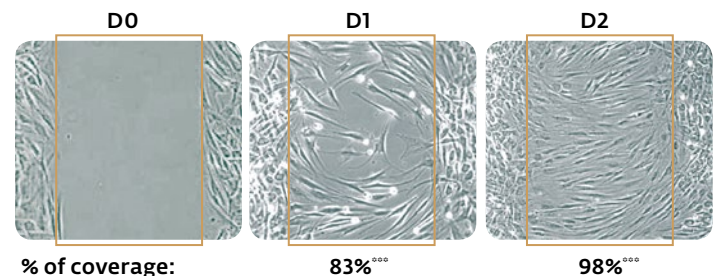
Antimicrobial activity (Ex vivo test)

Human explants were incubated with PrimalHyal™ 300 for 3 hours and the antimicrobial properties of the supernatants were evaluated against E. coli.



PrimalHyal™ 300 has potent antimicrobial properties on gram-negative bacteria through the release of DEFB2.

An insert is removed to create a cell-free zone into a fibroblasts culture. The cells are treated with 0.1% of PrimalHyal™ 300 during 48 hours. The coverage of the cell-free surface was evaluated by photo analysis.



PrimalHyal™ 300 boosts the skin cellular reparation process by fibroblasts and keratinocytes proliferation and migration.

INCI name: Hydrolyzed hyaluronic acid (Other cosmetic reference: Bashyal Poudre - INCI name: sodium hyaluronate).

Preservative: None.

Dosage: 0.05% to 0.2% | **Form:** powder | Hydrosoluble

Cosmetic applications: Baby care, oily skin products, specific care for acne prone skin, after shave or after sun products.