

## PRESS RELEASE

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### Hebeatol Range Natural protection to your formula

Hebeatol range emerges as an exclusive solution to a global dilemma: the continuous investigation for safe and effective antimicrobials or preservatives.

More than a natural antimicrobial, Hebeatol is a unique synthesized molecule, composed by a functional ester based on Xylitol, sugar found in several natural sources, and caprylic acid, derived from vegetable oil.

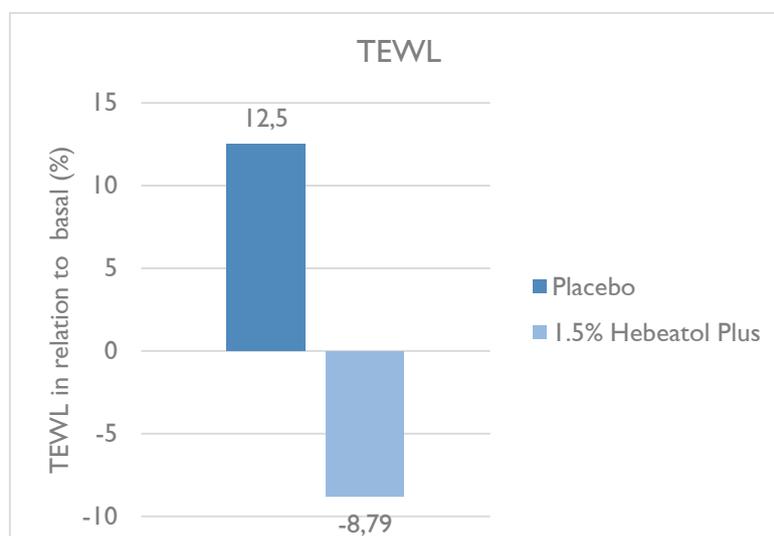
Hebeatol helps to reduce or eliminate the need of controversial preservatives, such as parabens, donors of formaldehyde and methylisothiazolinone (MIT). It is both safe and effective, and can be used in either leave-on or rinse-off products for skin and hair care without changing the color or odor of the formula.

It is also available in China approved versions.

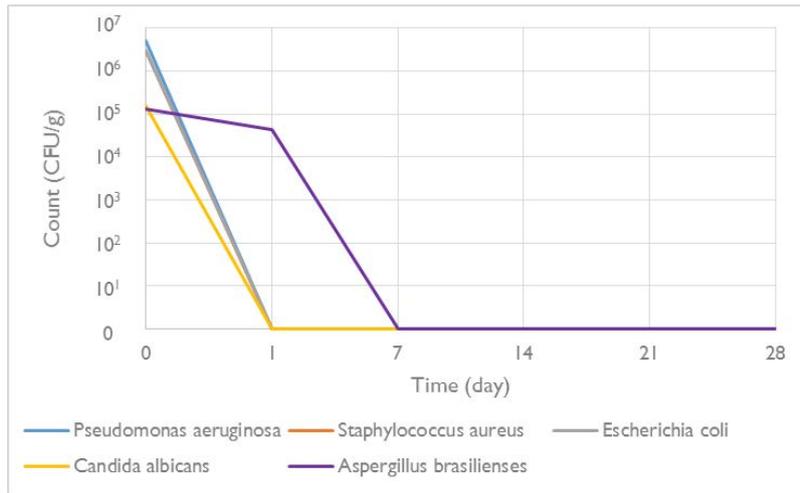
The Hebeatol range are composed of:

- 1- Hebeatol Plus**, which can be used as a single ingredient, depending on the formulation. It has antimicrobial activity and offers a moisturized skin by reducing the transepidermal water loss.

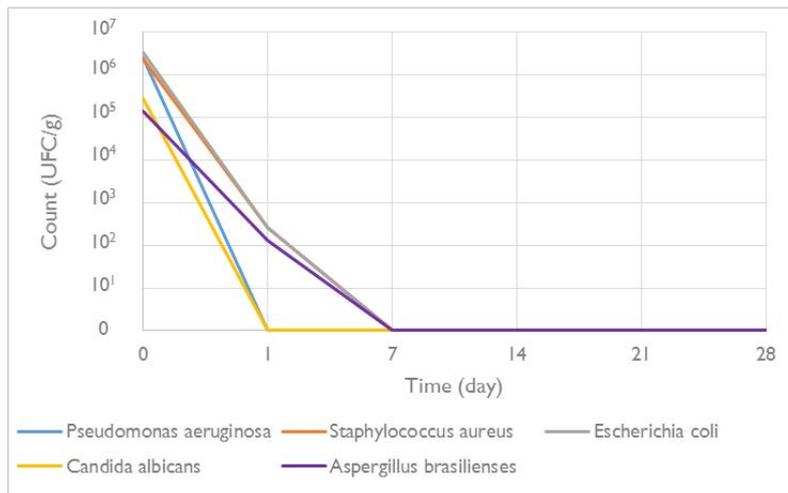
- 1.1. TEWL change in value (%) in relation to basal values (D0), after 7 days (D7) using the formulation containing Hebeatol Plus.**



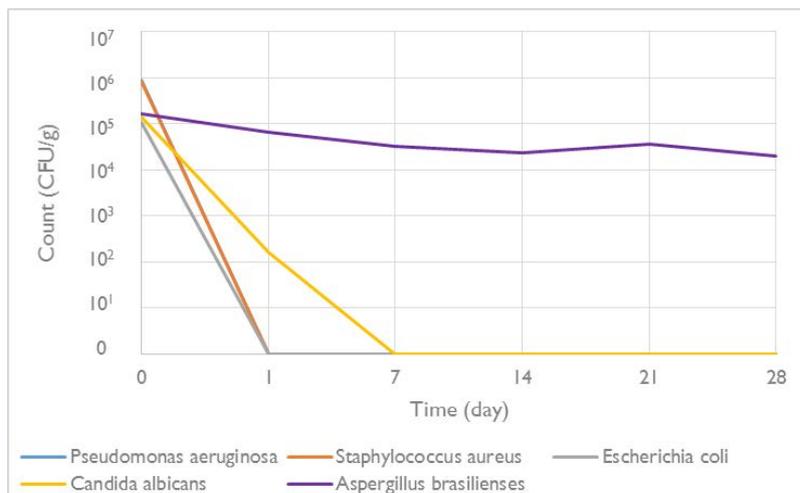
1.2. Cationic system Challenge Test (hair conditioner) containing 0.5% Hebeitol Plus.



1.3. Anionic system Challenge Test (Shampoo) containing 0.5% Hebeitol Plus.

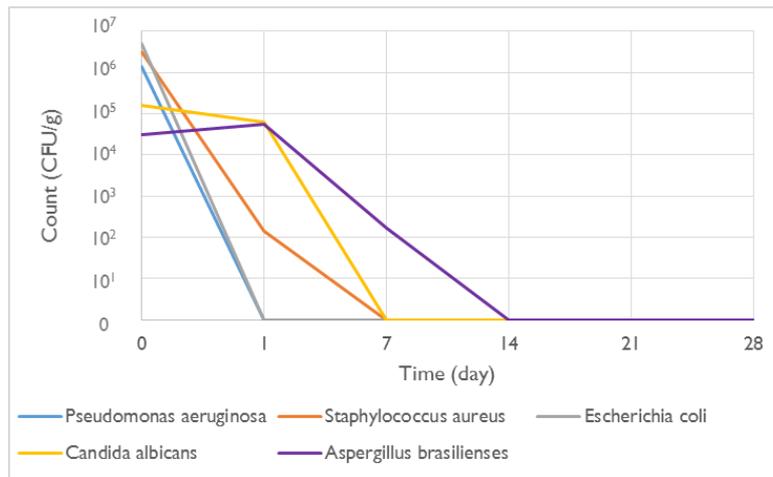


1.4. Oil in water emulsion Challenge Test containing 1.5% Hebeitol Plus pH 6.0-7.0.



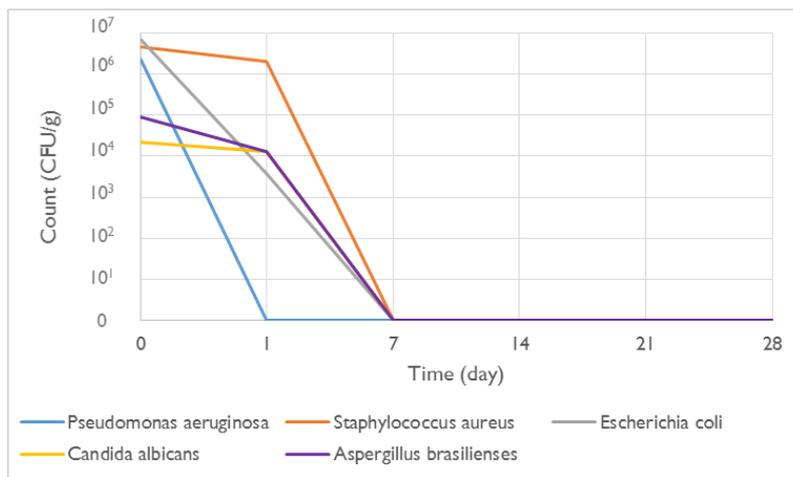
**2- HebeatoI BA** is an antimicrobial system with a wide spectrum of action. It might be compatible with polymeric systems depending on the formula.

Oil in water emulsion Challenge Test containing 1.0% HebeatoI BA.



**3- HebeatoI PSVG** offers a synergistic combination for wide antimicrobial spectrum.

Oil in water emulsion Challenge Test containing 1.5% HebeatoI PS VG.



HebeatoI range offers a wide spectrum of action as a natural antimicrobial in different formulations such as creams, lotions, serums, gel-creams, shampoos and conditioners.

### About Chemyunion

Chemyunion is a Brazilian company founded in 1992 that became an important supplier for the development and production of innovative ingredients for the cosmetic, dermocosmetic and health care sectors.

Our range of ingredients comprise actives for skin and hair care, vegetable origin preservatives, functional and sensorial excipients among others.

Our portfolio is present worldwide and it has been exported to more than 50 countries combining technological expertise and market trends to offer products and services with perceivable benefits to our customers.

We are inspired by innovation, committed to sustainability and are continuously investing in research and development of new products and services in order to be always our customers first choice.