

Multifunctional  
Cosmetic  
Additives



## PIONEERING AND CHANGING COSMETIC PRESERVATION CONCEPTS

Since the introduction of **dermosoft**<sup>®</sup> Octiol, the first widely used multifunctional additive with excellent antimicrobial properties in 1992, Dr. Straetmans GmbH has always pioneered the development of alternative preservation. Today, many years later, the cosmetic industry has been enriched by numerous new raw materials which allow to formulate cosmetics without using traditional preservatives. Many of those concepts have been and are still being created by Dr. Straetmans.

The **concern about traditional preservatives** is growing and it is not only a back and forth of consumer perception. Legislative steps are putting an end to or heavily restricting the use of many widely used preservatives and these measures will be irreversible. It is a challenge for raw material suppliers and cosmetic manufacturers to work proactively on this issue and provide competitive and successful cosmetic products for the future.

**Built on many years of experience** Dr. Straetmans offers a broad range of multifunctional additives that provide cosmetic benefits like masking, hydrating, wetting or refatting properties. But furthermore our **dermosoft**<sup>®</sup> range will help to produce microbiologically sound cosmetic products without the use of common preservatives. The versatile range employs masking agents (parfum), which may cover undesired odours of other raw materials. These compounds are usually organic acids with excellent antimicrobial properties. Another large group within the product range are surface active compounds with wetting and refatting capacity, that on top of these cosmetic functions effectively reduce the germ count in cosmetic formulations. With selective efficacy against Gram-positive germs, some **dermosoft**<sup>®</sup> types can also help to maintain healthy skin and fight skin impurities or act as a deodorant active.

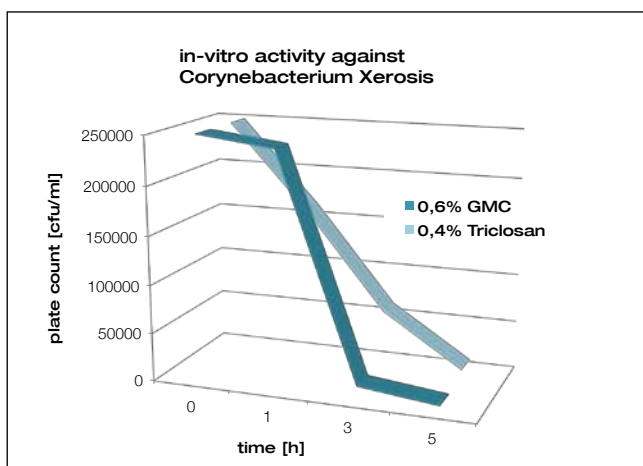


Fig. 1: Dermosoft GMC, an example for a mild and selective antimicrobial additive, has a comparable performance to Triclosan against *Corynebacterium xerosis*.

**Reducing and replacing preservatives** is within the scope of **dermosoft**<sup>®</sup>. For instance **dermosoft**<sup>®</sup> Octiol is an efficient additive that will allow to significantly reduce the preservative load – or to replace traditional preservatives completely. **dermosoft**<sup>®</sup> LP is a blend that is a particularly good alternative to parabens, especially in products, where parabens have limitations as it is the case in lecithin containing concepts. And also natural cosmetics need a reliable protection against microbial spoilage. This is achieved in hundreds of products with our ECOCERT listed line of additives.

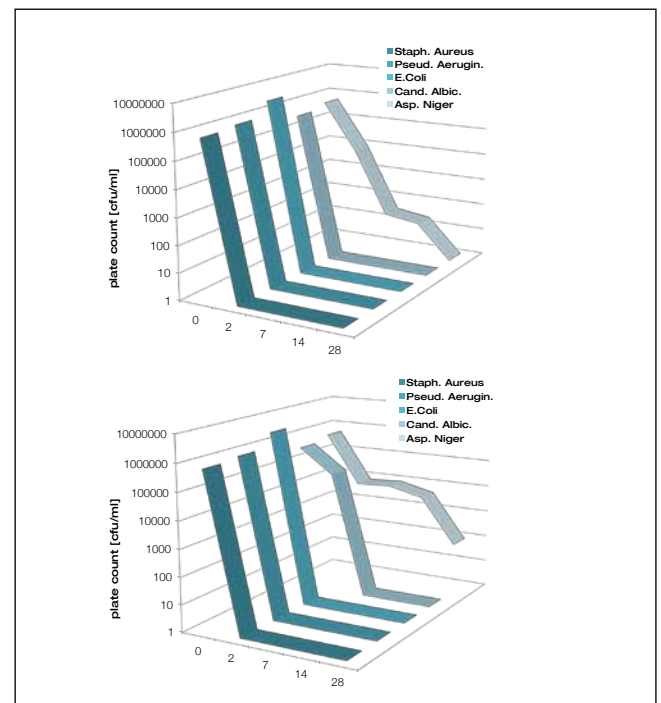


Fig. 2: Comparison of 1% Dermosoft LP (top) and 0,8% Paraben/Phenoxy-ethanol mix (bottom) in a standard o/w formulation containing phospholipids. Note the better performance of Dermosoft LP against yeast and mold.

**Skin friendliness and antimicrobial effectiveness**

are in the focus of our product development. Many years of experience in countless products in the international marketplace show us, that the success of **dermosoft®** is based on exactly those pillars. For cosmetic manufacturers also our application department and the external microbiological lab are an invaluable help in their daily work. New formulations are constantly being developed and delivered to our customers as a support for their work. Nothing is left

to chance. Profound chemical knowledge combined with targeted scientific tests for our customers are the key to success for cosmetic concepts based on **dermosoft®**.

And **naturally**, we also offer a large number of effective antimicrobial cosmetic additives in full accordance with natural cosmetic standards, produced using 100% renewable resources, fully biologically degradable and ECOCERT registered.

**PERFORMANCE OF DERMOSOFT® PRODUCTS AGAINST BACTERIA, YEAST AND FUNGI**

Product	INCI-Registration	Recommended		gram+	gram-	yeast	Fungi	Natural cosmetics
		dosage [%]	pH range					
<b>dermosoft®</b> 250	Parfum	0,05 – 0,2 %	unlimited	●	●	●	●○	
<b>dermosoft®</b> 688	Parfum	0,05 – 0,3 %	< 5,5	●	●	●	●●	
<b>dermosoft®</b> 688 ECO	Parfum	0,05 – 0,3 %	< 5,5	●	●	●	●●	✓
<b>dermosoft®</b> 690	Parfum	0,3 – 1,0 %	< 5,5	●●	●●	●	○	
<b>dermosoft®</b> 700 B	Parfum	0,3 – 1,0 %	< 5,5	●●	●●	●	○	✓
<b>dermosoft®</b> 1388	Glycerin, Aqua, Parfum	2,5 – 4,0 %	< 5,5	●●	●●	●	●●	
<b>dermosoft®</b> 1388 ECO	Parfum	2,5 – 4,0 %	< 5,5	●●	●●	●	●●	✓
<b>dermosoft®</b> Octiol	Caprylyl Glycol	0,3 – 1,0 %	unlimited	●●	●●	●●	●○	
<b>dermosoft®</b> MCA Variante	Caprylyl Glycol; Dipropylene Glycol; Glyceryl Caprylate	0,5 – 1,0 %	5 – 7	●●	●●	●●	●○	
<b>dermosoft®</b> LP	Caprylyl Glycol; Glycerin, Glyceryl Caprylate, Phenylpropanol	1,0 – 1,5 %	5 – 7	●●	●●	●●	●	
<b>dermosoft®</b> OMP	Methylpropandiol; Caprylyl Glycol; Phenylpropanol	2,0 – 4,0 %	unlimited	●●	●●	●●	●	
<b>dermosoft®</b> GMCY	Glyceryl Caprylate	0,5 – 1,0 %	5 – 7	●●	●●	●●	●○	✓
<b>dermosoft®</b> GMC	Glyceryl Caprate	1,0 – 2,0 %	5 – 7	●●	●	●●	○	✓
<b>dermosoft®</b> DGMC	Polyglyceryl-2 Caprate	1,0 – 3,0 %	5 – 7	●	○	○	○	✓
<b>dermosoft®</b> SLL	Sodium Lauroyl Lactylate	0,5 – 2,0 %	5 – 7	●●	●○	●●	○	✓

**ANTIMICROBIAL PERFORMANCE:**

- Very good
- Fair
- Moderate
- Not sufficient

The given performance information reflect our long term experience with the products in different applications. Combinations of the above mentioned materials in many cases exhibit synergistic effects. However, as the efficacy of an antimicrobial system strongly depends on the character of the formulation and the specific ingredients, the effectiveness of the chosen system has to be evaluated individually.

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