



## Multifunctional Additives

Product Information

# dermorganics<sup>®</sup> 1388

Product features

- Multifunctional fragrance composition
- Moisturizing effect
- Skin friendly
- Anti-inflammatory properties
- Broad antimicrobial activity
- 100% natural and 46% organic

## dermorganics® 1388

dermorganics® products cover many cosmetic functions

dermorganics® 1388 features natural antimicrobial activity

Efficacy and easy application are the cornerstones of dermorganics® 1388

### The product line

dermorganics® products are carefully chosen multifunctional cosmetic ingredients with the highest possible percentage of organic ingredients. The well balanced product profiles are tailored to the needs of cosmetic formulations. Basic cosmetic functions will meet many of your requirements for the improvement of cosmetic formulations.

### dermorganics® 1388

The product's active principle is a blend of compounds found in many plants in nature. In combination with plant derived glycerol contained in this skin friendly mixture a moisturizing effect can be created. The delicate scent of dermorganics® 1388 will help to mask undesired odours of raw materials but will usually not interfere with other fragrance. The gently acidic ingredients will improve the natural acidic environment of the skin. And finally, the outstanding antimicrobial activity of dermorganics® 1388 can convert most cosmetic formulations in self preserving products – with no further need for traditional preservatives. Interestingly also bees use one of the contained natural acids for the difficult task of protecting their nest provisions (pollen and nectar) against microbiological spoilage. 46% of dermorganics® 1388 can be taken in count for the organic portion of a cosmetic product.

### Application

In order to further improve the versatility of these products we also focussed on the convenience of our dermorganics® range. dermorganics® 1388 is liquid and clearly water soluble and can be employed easily in surfactant based rinse off concepts, emulsions (O/W an W/O) as well as in hydroalcoholic products. To avoid recrystallization and maximum efficacy please regard the recommended use level and the pH requirements.

dermorganics® 1388 provides:

- easy application
- compatibility with natural cosmetics and organic cosmetics
- broad spectrum microbiological activity

Characteristics of dermorganics® 1388				
Appearance	Clear, colourless to pale yellow liquid			
INCI	Glycerin; Aqua; Sodium Levulinate; Sodium Anisate			
Recommended dosage	3,0 – 4,0 %			
Antimicrobial performance ●● very good                      ● fair ●/○ moderate                      ○ not sufficient	Gram+	Gram-	Yeast	Mould
	●●	●●	●●	●●
pH-range	4,5 - 5,5			
Regulatory status	Registered in EU, US, Japan			

### **dermorganics® 1388**

#### **Cosmetic functions**

**Different cosmetic functions are obtained with dermorganics® 1388**

##### **Hydrating**

The hydrating effect of glycerine has been proved in many clinical studies and has long been used in cosmetic formulations. It's efficacy has been shown to supersede the hydrating capacity of urea or propylene glycol. The amount of glycerol contained in **dermorganics® 1388** will contribute to the hydrating properties of the cosmetic product at recommended use concentrations.

##### **Masking**

The perfume ingredients in **dermorganics® 1388** are known as masking agents. The unspecific scent does not make them first choice for use as a stand alone perfume. But the aroma is appreciated by many formulators to mask undesired odours of raw materials. The light smell will usually not add to or interfere with the perfume in the product.

##### **Acidifying**

**dermorganics® 1388** contains two organic acids that are found in nature in many plants. As an intrinsic property of such organic acids the acidity is very low. This makes them ideal candidates for a gentle acidifying effect on human skin. Thus the natural acidic level of the skin can be maintained for a longer time. The correlation between physiological pH and healthy skin has been shown in many studies and there has been evidence that micro organisms like Propionibacterium acne and Staphylococcus aureus and even viruses are significantly reduced, by organic acids and when the normal pH on human skin is maintained stable.

##### **Anti-inflammatory**

**dermorganics® 1388** contains a compound with known anti-inflammatory effect that can act soothing on irritated skin. The anti-inflammatory effect of this compound has been shown to be comparable to other agents like phospholipid analogues, sterols, or vitamin E analogues.

##### **Antimicrobial efficacy**

Although **dermorganics® 1388** may be employed for many of its additional valuable cosmetic functions, the excellent antimicrobial activity will very well improve the microbiological stability. In most cases it will allow to eliminate unnecessary preservatives from the product. As can be seen in the following figures all relevant germs are destroyed quickly and effectively. The blend contains one compound with bactericidal properties while the co-active shows excellent fungicidal action. Together the two actives display a very good and broad anti microbial performance. For an optimum efficacy the pH of the formulation should not be higher than 5,5.

## dermorganics® 1388

All the microbiological tests are done in an independent external and certified laboratory according to the Pharmacopoeia Europea. The following examples show test results of challenge tests with state of the art products that contain **dermorganics®1388**

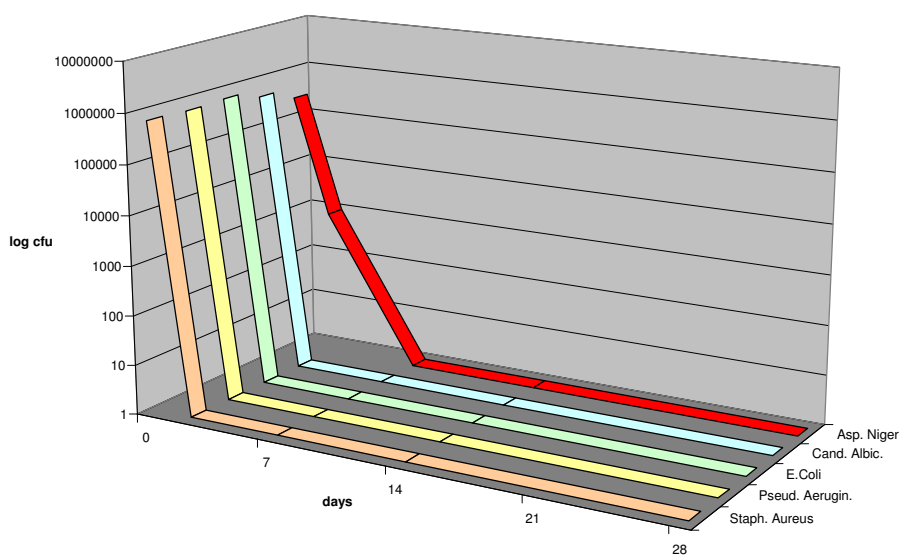


Figure 1: Challenge Test with Shampoo Baby Care stabilized with 3,5 % **dermorganics® 1388**

Many cosmetic formulations can be stabilized with **dermorganics® 1388**

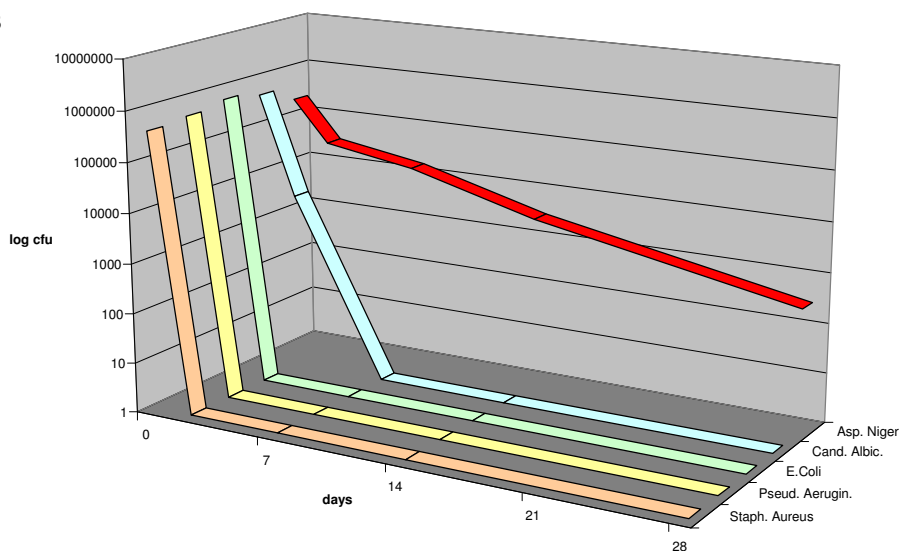


Figure 2: Challenge Test with Skin Serum stabilized with 2,25 % **dermorganics® 1388**

## dermorganics® 1388

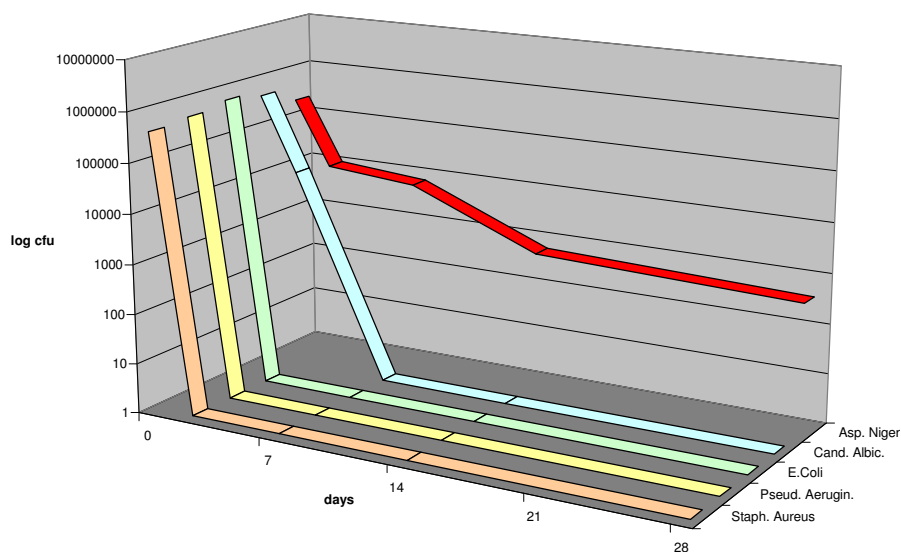


Figure 3: Challenge Test with Organic Body Lotion stabilized with 3,0 % **dermorganics® 1388**

The combination of mild masking agents in a skin friendly and moisturizing solution form our **dermorganics® 1388**. This furnishes your formulation with a reliable biological stabilization. Just add **dermorganics® 1388** to your formulation and adjust the pH to the recommended level. Using **dermorganics® 1388** has never been easier!

### **dermorganics® 1388**

Dozens of formulation examples are compiled in our Formulary

#### **Toxicology**

**dermorganics® 1388** is not irritating, not sensitizing and does not contain genetically modified material, dioxine, phthalates, BSE-related material or CMR-material. Without the 26 sensitizers, it is in full compliance with the IFRA codes and the 7th amendment.

#### **Packing units**

**dermorganics® 1388** is available in 25 kg canisters.

#### **Environmental Information**

**dermorganics® 1388** is made from environmentally and toxicologically unobjectionable raw materials. **dermorganics® 1388** is fully biodegradable and has not been tested on animals.

#### **Handling and storage**

In closed original containers **dermorganics® 1388** can be stored for at least 3 years. **dermorganics® 1388** does not need to be preserved.

