



Product Information

Multifunctionals:

dermosoft[®] MCA Variante

Product features:

- Multifunctional cosmetic ingredient
- Wetting and refatting
- Strong broadband antimicrobial activity
- For perfume free concepts
- Ideal for color cosmetics

dermosoft® MCA Variante

The product: dermosoft® MCA Variante

This multifunctional blend is based on surface active substances with wetting and refatting properties. This raw material provides reliable, broad antimicrobial efficacy at a low dosage. Due to its good compatibility, it is very easy to handle and to formulate. For a wide range of cosmetic products, especially perfectly suitable for products developed without perfume.

Characteristics

- INCI: Caprylyl Glycol; Dipropylene Glycol; Glyceryl Caprylate
- Appearance: Colorless liquid
- Components
 - Caprylyl Glycol: Wetting agent with excellent antimicrobial properties
 - Dipropylene Glycol: Moisturizing and water binding agent
 - Glyceryl Caprylate: Plant derived wetting and refatting agent
- Convenient multifunctional blend
- Applicable for all kinds of emulsions and surfactant based products
- Efficacy proven for color cosmetics
- Especially suitable for perfume free concepts
- Low dosage
- Cold processable
- pH range: 4.0 – 7.0



Dosage and antimicrobial efficacy

Product Concept	Dosage	Gram +	Gram -	Yeast	Mould
Emulsions	0.5 – 1.0 %	++	++	++	+
Surfactant based products	0.5 – 1.0 % + fungicidal active	++	++	++	+
Color cosmetics	0.5 – 1.0 %	++	++	++	+

Legend: + = good, but needs a co-active / ++ = very good alone

dermosoft® MCA Variante

How to work with dermosoft® MCA Variante

Manufacturing procedure

In emulsions

- Recommended procedure: mix with the aqueous phase before emulsification
- Also possible to add to the oil phase
- Suitable for cold or hot process, up to 80°C

Very easy to process

Note: dermosoft® MCA Variante may have an influence on emulsion viscosity & stability. Check carefully.

Surfactant based products

- The antimicrobial performance of dermosoft® MCA Variante is depending on the surfactant matrix. The inclusion into surfactant micelles might reduce the efficacy of dermosoft® MCA Variante
- A combination with fungicidal antimicrobial is advisable

Aqueous products

- dermosoft® MCA Variante can be introduced with the help of a solubilizer

Formulation advice

Consider pH during manufacturing procedure	Do not fall below pH 4.0 or exceed pH 7.0
Boost antimicrobial efficacy against mould	Combine with organic acid, e.g. dermosoft® 688 or Ethanol

Application Ideas

Perfectly suitable for emulsions and color cosmetics.

The convenient, odorless solution

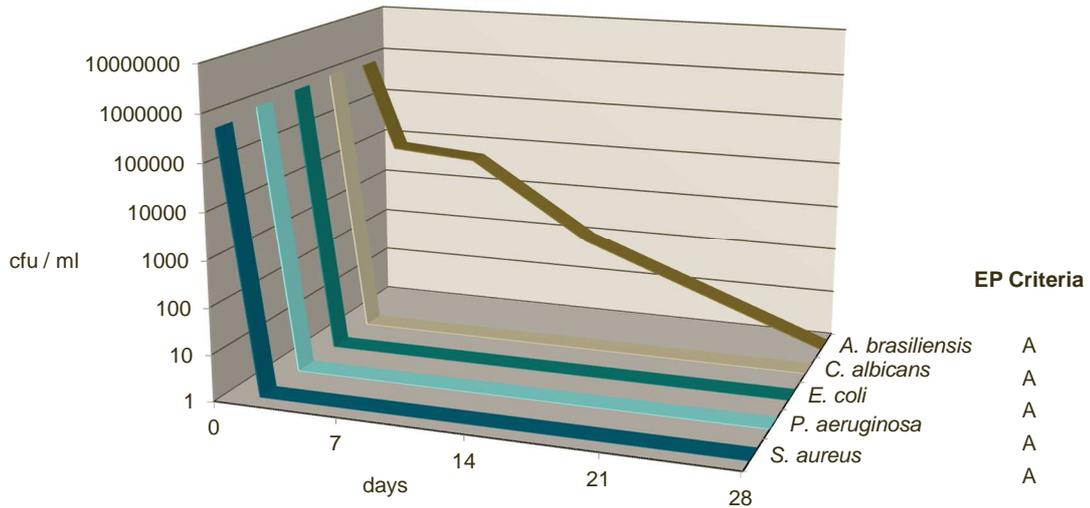
For more formulation ideas visit us at:
<https://www.dr-straetmans.de/en/products/>

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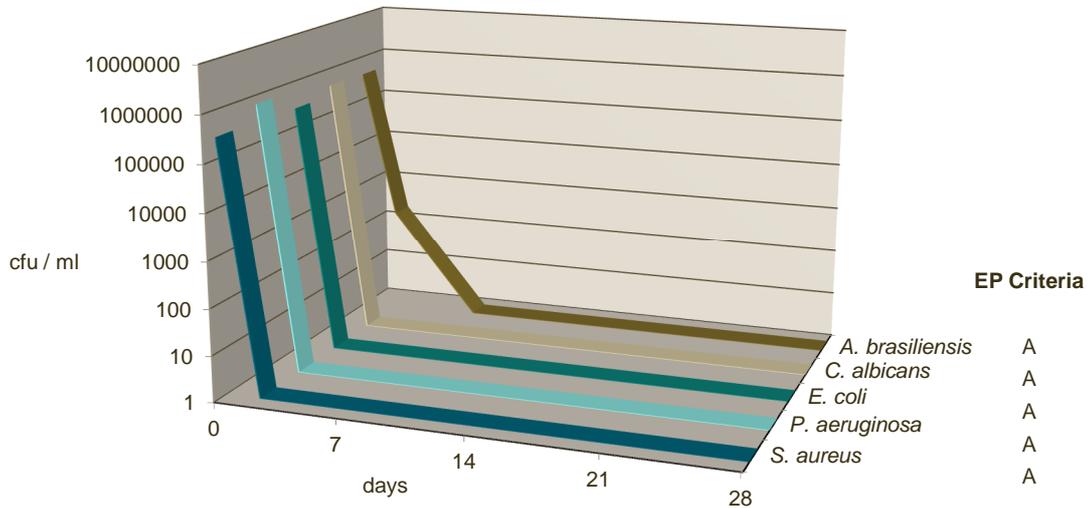
Proof of Performance

Challenge test example for the performance in color cosmetics

Foundation O/W Emulsion based on **dermofeel®** GSC with 1% **dermosoft®** MCA Variante (pH 5.4)



Classic Mascara with 1.0% **dermosoft®** MCA Variante (pH 5.8)

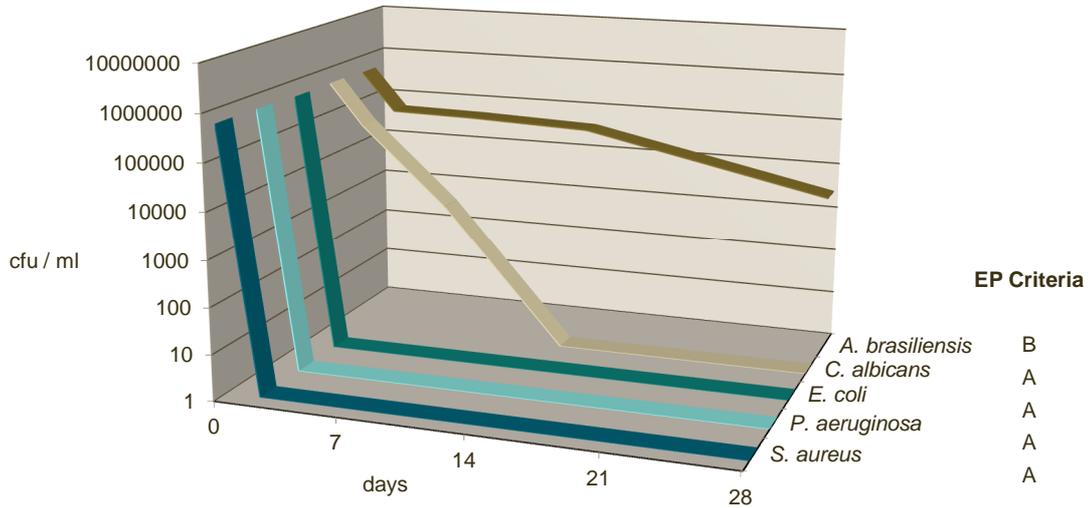


dermosoft® MCA Variante is also suitable for application in powder/pressed powder products.

dermosoft® MCA Variante

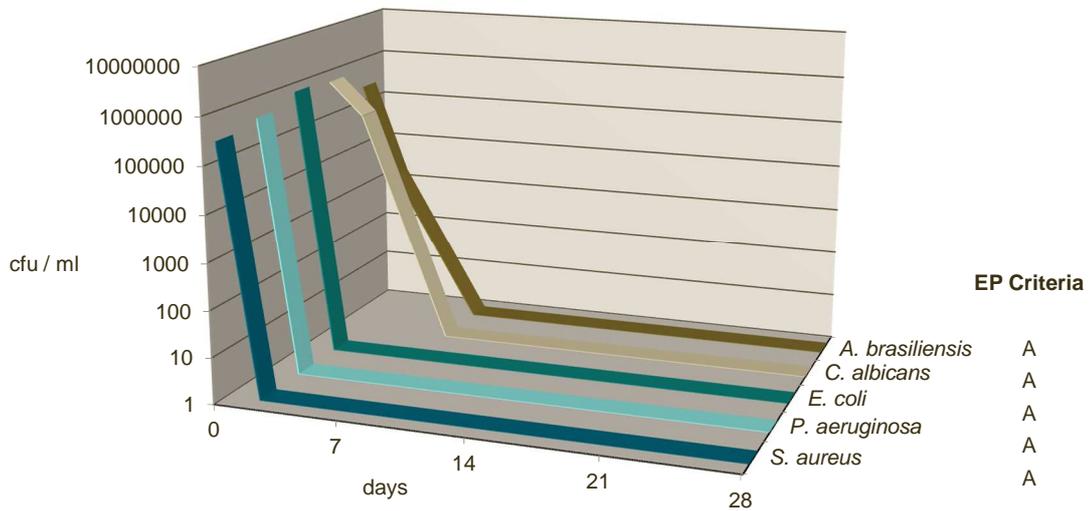
Challenge test example for the performance in emulsions with high amount of UV filters

O/W Sun Lotion High SPF based on **dermofeel®** GSC and **dermofeel®** PGPR with 1% **dermosoft®** MCA Variante (pH 4.8)



Challenge test example for the performance in combination with a fungicidal active

O/W Lotion with 0.4% **dermosoft®** MCA Variante and 0.133% **dermosoft®** 688



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Trade Information

International Approval*	EU, USA, Canada, Australia, China, Japan, Korea.
Packaging	25 kg / 200 kg / 950 kg
Shelf life <i>(stored in original container)</i>	36 months

** Information is based on our best knowledge and reviewed for the most requested regions only. We recommend to check current regulatory requirements in individual target countries. For more information contact our regulatory department or refer to our regulatory status statement.*

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