



# Product Information

## Multifunctionals:

### **dermo**soft<sup>®</sup> PEA

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Product features:

- Water soluble masking agent
- Aromatic alcohol
- Excellent antimicrobial activity
- pH independent
- Rose-like scent

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# dermosoft® PEA

## The product: dermosoft® PEA

The active principle of **dermosoft®** PEA is found as a fragrance component in nature in many flowers. The delicate rose-like scent of **dermosoft®** PEA will help to mask undesired odours of raw materials and can round off the fragrance of the formulation. Furthermore, it shows good broadband antimicrobial activity and provides solvating properties, especially for fragrance components and pigments. Therefore, it is an ideal boosting agent and solvating agent for water based products.

### Characteristics

- *INCI: Phenethyl Alcohol*
- Appearance: colourless to slightly yellow liquid
- Clear water soluble (up to 2%)
- Mild rose-like scent
- Excellent synergistic effects with surface active materials (e.g. **dermosoft®** Octiol or **dermosoft®** Hexiol)
- Easy to handle (hot or cold processable)
- For aqueous based products, color cosmetics, O/W and W/O-emulsions
- pH independent

### Dosage

Product Concept	Dosage
Aqueous systems	0.5 – 1%*
W/O-emulsion	0.7 – 1%*
O/W-emulsion	0.7 – 1%*

\*At a dosage lower than 1% combination with a surfactant active (e.g. **dermosoft®** Octiol or **dermosoft®** Hexiol) is recommended.

### Antimicrobial efficacy

Gram +	Gram -	Yeast	Mould
+	++	+	++

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

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## How to work with dermosoft® PEA

### Manufacturing procedure (laboratory scale)

The liquid material **dermosoft®** PEA is very versatile in application and can be used for almost all product types.

### Recommended procedure for emulsions:

1. Add **dermosoft®** PEA to the water phase  
*Note: It is possible to add **dermosoft®** PEA to the water or oil phase at any step of production, if necessary.*
2. **dermosoft®** PEA is pH independent and can be heated up to 96 °C

Hot or cold  
process

Clear soluble.

### Aqueous Systems:

1. Add **dermosoft®** PEA to the water phase and proceed as usual.

### Formulation advice

Boost antimicrobial efficacy	In emulsions a combination with a co-active is recommended (e.g. <b>dermosoft®</b> Octiol or <b>dermosoft®</b> Hexiol)
	In rinse-off formulations combine with organic acids (e.g. <b>dermosoft®</b> 1388 or <b>dermosoft®</b> 688)
	In clear aqueous systems combination with ethanol can boost the efficacy
Incompatibilities	In aqueous systems containing surfactants, an inactivation may occur

### Application Ideas

Perfectly suitable for aqueous based products (e.g. tonics, gels)

For more formulation ideas visit us at:

<https://www.dr-straetmans.de/en/products/>

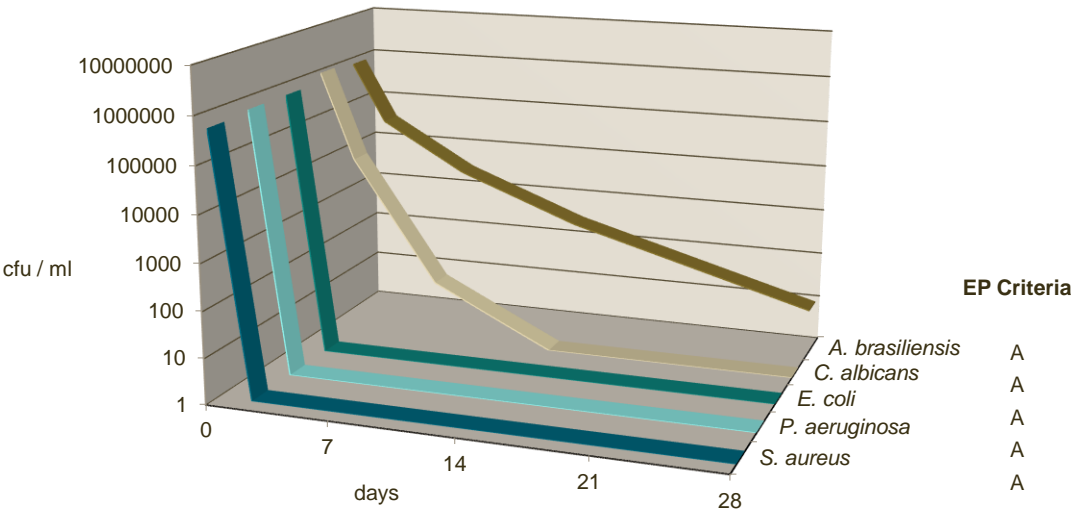
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Proof of Performance

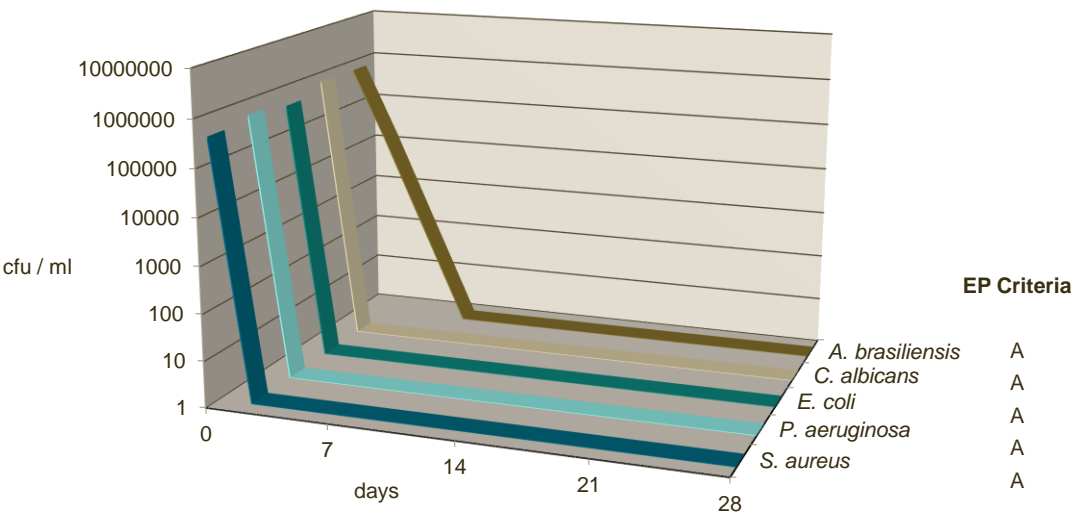
Performance in O/W emulsions

Basic O/W-emulsion with dermofeel® GSC and 1.0% dermosoft® PEA combined with 0.3% dermosoft® GMCY (pH 7)



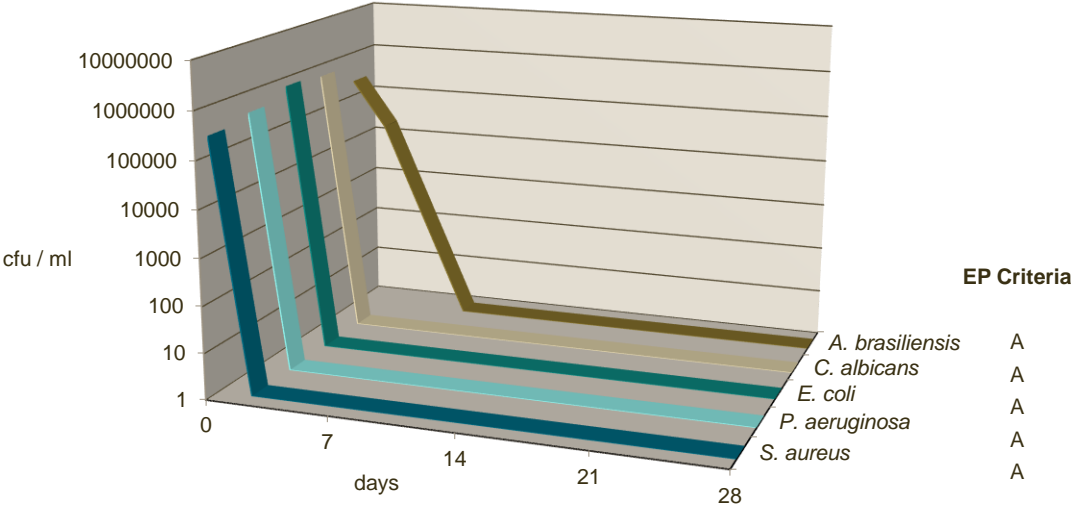
Performance in aqueous products

Refreshing Tonic with 0.8 % dermosoft® PEA and 4.0% Ethanol (pH 5.15)

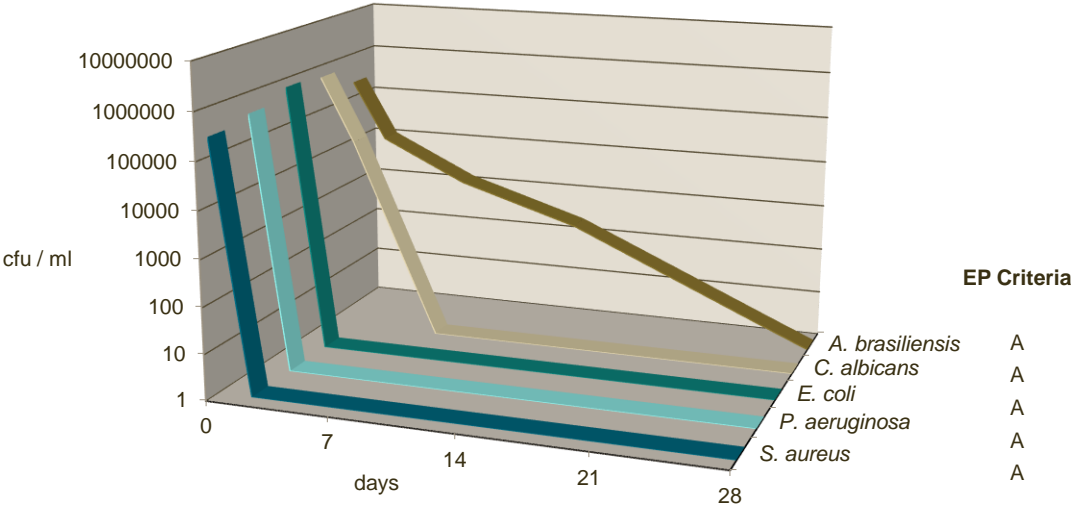


Performance in aqueous systems without additional ethanol

Body Splash with 1.0 % dermosoft® PEA (pH 5.4)



Aqueous system with 1.0 % dermosoft® PEA (pH 5.32)



## Trade Information

International Approval*	EU, USA, Canada, Australia, China, Japan, Korea.
Packaging	10 kg/ 200 kg
Shelf life <i>(stored in original container)</i>	24 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.*

For further information contact our Evonik Dr. Straetmans sales team:  
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or your local representative.

# Dr. Straetmans Worldwide Network

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<https://www.dr-straetmans.de/en/meta/contact/>



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