

Technical Information

dermosoft® 250 eco**The Product: dermosoft® 250 eco**

Our **dermosoft® 250 eco** is a naturally derived fragrance ingredient that is found in nature in many plants. The delicate hyacinth-like scent of **dermosoft® 250 eco** will help to mask undesired odors of raw materials and can round off the fragrance of the formulation. This multifunctional aromatic alcohol also shows synergistic antimicrobial effect with wetting agents (e.g. dermosoft® GMCY MB or dermosoft® Pentiol eco). It is a pH independent solution to complete the antimicrobial system of a cosmetic formulation.

CHARACTERISTICS

- INCI: Phenylpropanol
- Appearance: colorless, clear liquid
- 100% naturally derived ($n_P=1$); COSMOS approved and compliant with other standards for natural cosmetic; please contact us for further information

Cosmetic Functions

- Fragrance ingredient: gentle hyacinth-like odor
- Solvating properties for fragrance components
- Excellent synergistic boosting effects with surface active materials (e.g. dermosoft® GMCY MB or dermosoft® Pentiol eco)
- Easy to handle (cold process possible)
- Clear water soluble (up to 0.1% at RT)
- Temperature stable
- pH independent activity

DOSAGE

Product Concept	Dosage
Aqueous solutions ¹	0.05 – 0.4 % + co-active
Emulsions (O/W) ¹	0.05 – 0.4 % + co-active

¹ Not suitable for eye products and sensitive skin.

ANTIMICROBIAL EFFICACY

Gram +	Gram –	Yeast	Mould
+	++	+	++

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

How to work with dermosoft® 250 eco

MANUFACTURING PROCEDURE (LABORATORY SCALE)

The clear, liquid material **dermosoft® 250 eco** is easy to use and versatile in application.

Recommended procedure for emulsions:

1. Add **dermosoft® 250 eco** to the oil phase or the water phase and proceed as usual.
2. **dermosoft® 250 eco** is pH independent and can be heated up to 112 °C.

Hot and cold
process possible.

Aqueous Systems:

1. For lower amounts (up to 0.1%), add **dermosoft® 250 eco** to the water phase and proceed as usual.
2. For higher amounts, an additional solubilizer may be needed.

Suitable for use at
higher pH levels

FORMULATION ADVICE

Boost antimicrobial efficacy	In emulsions combine with a co-active (e.g. dermosoft® GMCY MB or dermosoft® Pentiol eco)
	In aqueous or hydroalcoholic formulations: combine with wetting agent (e.g. dermosoft® Pentiol eco)
Avoid additional use of solubilizer	Combine with wetting agent with solvating properties, such as dermosoft® Pentiol eco
Incompatibilities	The antimicrobial efficacy in surfactant-based products may be lower due to micellar inclusion
	Not suitable for eye products and sensitive skin

APPLICATION IDEAS

Perfectly suitable for tonics and gels or sun care products and color cosmetics (with the exception of eye products).

For more formulation ideas visit us at:

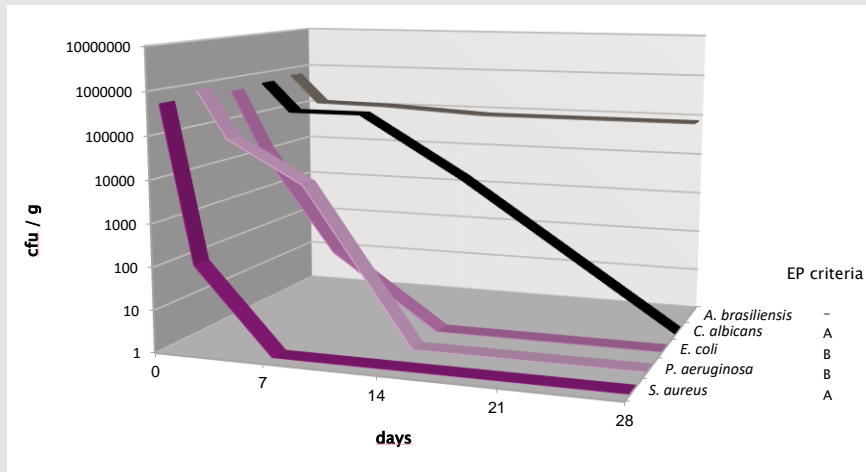
<https://www.dr-straetmans.de/en/products>

Proof of Performance

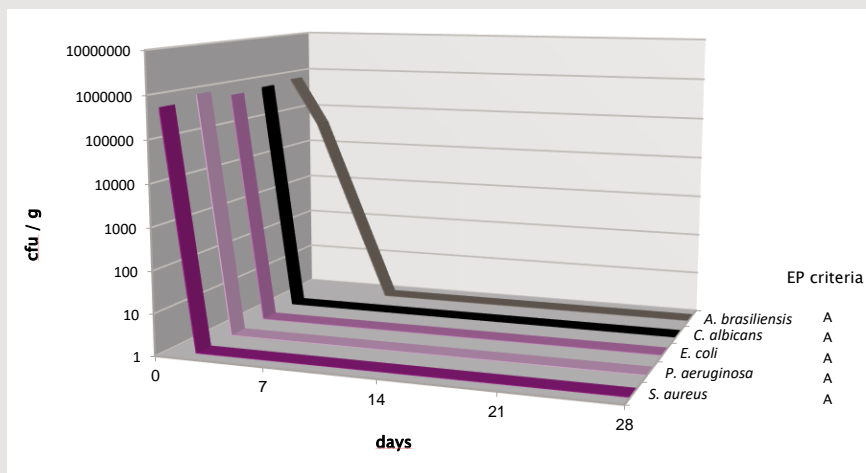
MICROBIOLOGICAL CHALLENGE TESTS

Excellent boosting effect in aqueous based products at higher pH levels

Aqueous solution with 3.0 % dermosoft® Pentiol eco (pH 6.4)

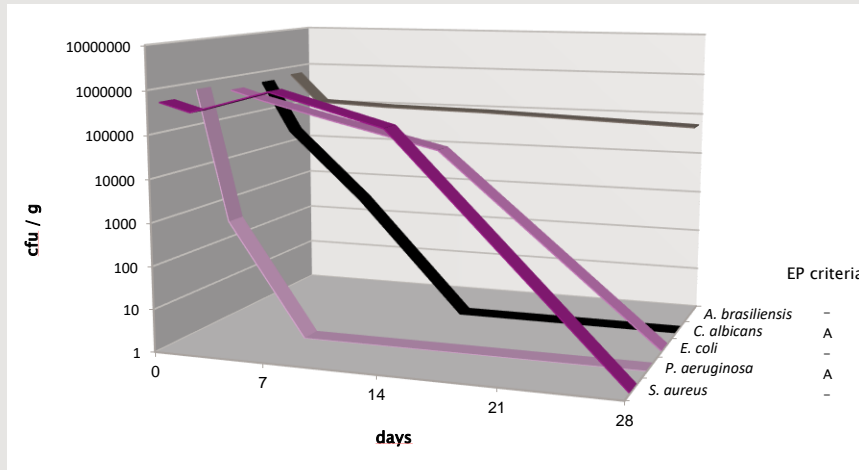


Aqueous solution with 3.0 % dermosoft® Pentiol eco and 0.4 % dermosoft® 250 eco (pH 6.4)

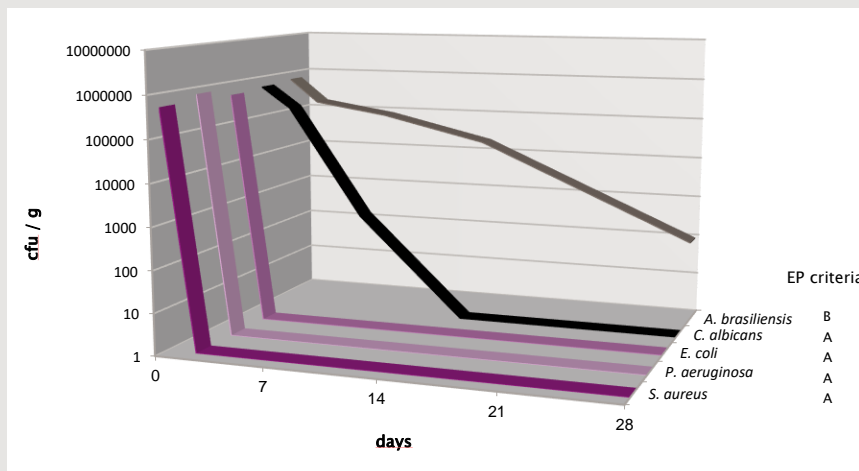


Efficacy in O/W emulsions at higher pH levels

Standard O/W emulsion (based on Glyceryl Stearate Citrate)
with 3.0 % dermosoft® Pentiol eco (pH 6.5)



Standard O/W emulsion (based on Glyceryl Stearate Citrate)
with 3.0 % dermosoft® Pentiol eco and 0.4 % dermosoft® 250 eco (pH 6.4)



Trade Information

International Approval*	EU, USA, Canada, Australia, China, Japan, Korea.
Packaging	5 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, refer to Product Data Record (PDR) document chapter 5.

¹Classified as skin corrosive (category 1B) and eye damaging (category 1). Consider requirements for transportation and storage.

For further information, please contact:
sales-drs@evonik.com

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Evonik Dr. Straetmans GmbH
Merkurring 90
22143 Hamburg, Germany
Phone +49 40 669356 0
Fax +49 40 669356 310
info-drs@evonik.com
www.dr-straetmans.de/en