

Product Information

dermosoft® 700B**The Product: dermosoft® 700B**

dermosoft® 700B is a multifunctional blend of organic acids made from sugar cane, dissolved in a water-glycerol-mixture to enable an easy to handle, liquid product with moisturizing properties. The delicate scent will help to mask undesired odours of raw materials and can round off the fragrance of the formulation. Furthermore, it shows excellent bactericidal activity and acts as a booster.

CHARACTERISTICS

- INCI: Levulinic Acid; Sodium Levulinate; Glycerin; Aqua
- Clear, light yellow liquid
- 100% naturally derived, already COSMOS approved and compliant with other standards for natural cosmetics (please contact us for further information)
- Cosmetic functions:
 - Hydrating: thanks to moisturizing glycerol
 - Masking: gentle scent, but no interference with other fragrances
 - pH-regulating
 - Antimicrobial activity
- Synergistic boosting effect in combination with other organic acids and antimicrobial surface active substances
- Excellent bactericidal activity
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- Easy to handle: liquid and clear water soluble
- Good skin compatibility
- For various types of cosmetic products
- pH-range 4.0 – 6.0

**DOSAGE**

Product Concept	Dosage
All types of cosmetic products	0.05 – 1.0 %*

Note: The lower the pH, the lower the required dosage. Individual cases/product types shall be evaluated by a safety assessor.

*Combination with fungicidal ingredients recommended (e.g. dermosoft® 688 eco). In emulsions addition of a boosting agent is required (e.g. dermosoft® GMCY MB).

ANTIMICROBIAL EFFICACY

Gram +	Gram –	Yeast	Mould
++	++	+	

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

How to work with dermosoft® 700B

MANUFACTURING PROCEDURE (LABORATORY SCALE)

Like other organic acids, **dermosoft® 700B** shows best performance at slightly acid pH. Therefore adjust the pH in the final formulation to 5.5 or below.

For emulsions:

1. It is recommended to add **dermosoft® 700B** to the water phase.
2. **dermosoft® 700B** can be added to the formulation at any step of the process.
3. At the end of the formulation process, adjust pH to < 5.5 to regenerate the active levulinic acid.

Note: Please check carefully if your formulation is compatible with electrolytes

Hot and cold process
possible

For surfactant based products:

1. Mix **dermosoft® 700B** with the surfactants and proceed as usual.
2. Adjust the pH at the end of formulation process (see above).

For aqueous based systems:

1. Mix **dermosoft® 700B** ideally with the pure water phase.
2. Adjust the pH at the end of formulation process (see above).

Fully water soluble

FORMULATION ADVICE

Compatibility	Ethanol, Glycols, Surface Active Substances
Incompatibility	Electrolyte-sensitive Materials
For working with lecithins	Hydrate lecithin first and add dermosoft® 700B at the end of the formulation process
Boost antimicrobial performance in emulsions	Combine with surface active antimicrobials (dermosoft® GMCY MB or dermosoft® GMC MB)
Boost antimicrobial performance in all types of cosmetic products	Combination with fungicidal ingredients recommended (e.g. dermosoft® 688 eco)

APPLICATION IDEAS

Perfectly suitable for various product types, particularly for natural cosmetics (tonics, rinse-off, emulsions, etc.).

For more formulation ideas visit us at:

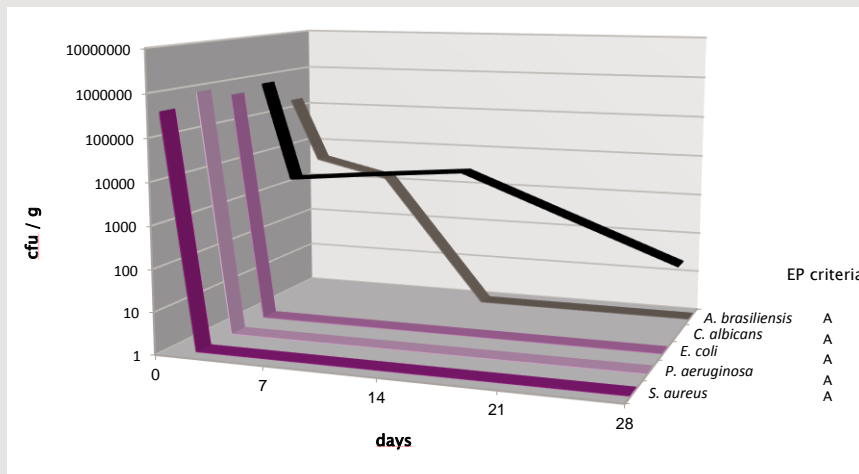
<https://www.dr-straetmans.de/en/products>

Proof of Performance

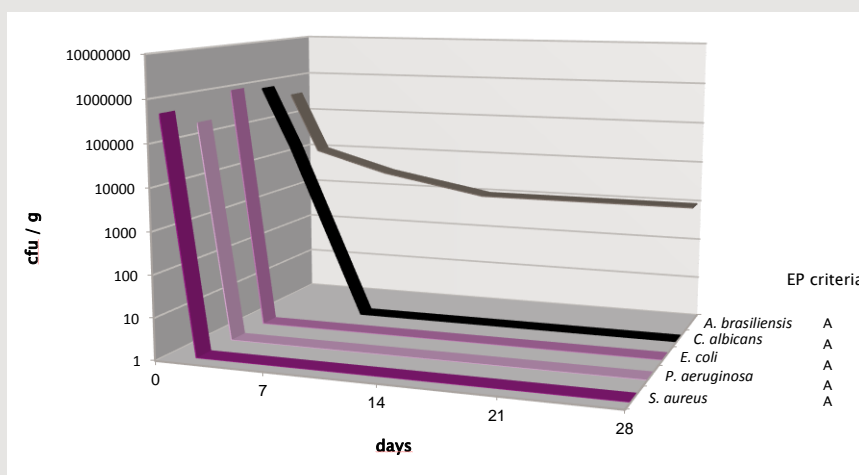
MICROBIOLOGICAL CHALLENGE TESTS

Performance in emulsions in combination with further organic acids and wetting agents

Light W/O-emulsion with 0.5% dermosoft® 700B and 0.2% dermosoft® 688 and 0.2% dermosoft® Octiol (pH 5.2)

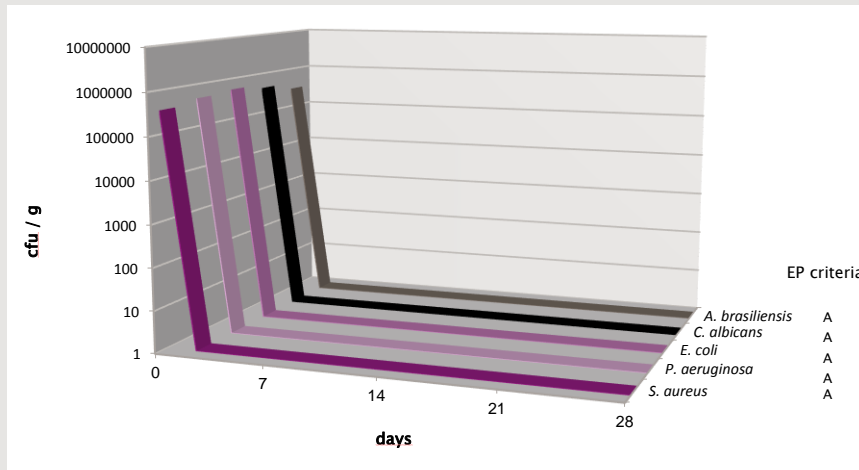


Natural basic emulsion with 0.3% dermosoft® 700B and 0.2% dermosoft® 688 eco and 0.5% dermosoft® GMCY MB (pH 5.3)



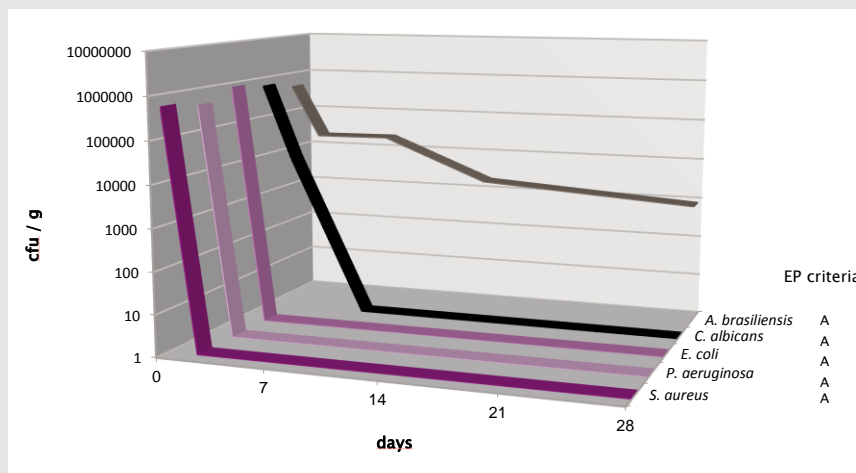
Performance in surfactant based products

Natural face wash with 0.5% dermosoft® 700B and 0.2% dermosoft® 688 eco (pH 6.7)



Performance in aqueous systems

Natural face tonic with 0.45 % dermosoft® 700B and 0.15% dermosoft® 688 eco (pH 5.3)



Trade Information

International Approval*	EU, USA, Canada, China, Japan, Korea
Packaging	5 kg / 25 kg / 200 kg / 1.000 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.

** During storage a slight intensification of the color may occur.

For further information, please contact:
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