

Product Information

# Verstatil® SL non GMO

## The Product: Verstatil® SL non GMO

Verstatil® SL non GMO is a liquid mix of potassium sorbate and the skin conditioning agent levulinic acid, derived from non-GMO sources. This easy to handle blend is optimized for good skin compatibility. It has a broad antimicrobial performance especially in surfactant based and aqueous products.

### CHARACTERISTICS

- INCI: Aqua; Sodium Levulinate; Potassium Sorbate
- Appearance: colorless to brownish liquid
- 90% natural origin, already ECOCERT/COSMOS approved and compliant with other standards for natural cosmetics (please contact us for further information)
- Sodium Levulinate based on sugar cane
  
- Preservative blend with broadband antimicrobial activity
- No phenoxyethanol/ isothiazolinone/ parabens/ formaldehyde-releasers/ halogenorganic compounds
- Ideal for rinse-off and water-based products, suitable for emulsions
- Low impact on the stability and appearance of the formulation
- Reliable and cost-effective
- Globally approved
  
- Easy to use:
  - o Liquid material
  - o Fully water soluble
  - o Hot and cold processable
- pH range: 4.0 – 6.0

### DOSAGE

Product Concept	Dosage
Surfactant based products	1.5 – 2.0 %
Aqueous based products	1.5 – 2.0 %
Emulsions	1.5 – 2.0 %*

Max. dosage 6 % according to European Cosmetics Legislation. Please consider your national legislative restrictions.  
 \* combination with boosting co-active recommended.

### ANTIMICROBIAL EFFICACY

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

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

## How to work with Verstatil® SL non GMO

### MANUFACTURING PROCEDURE (LABORATORY SCALE)

#### In emulsions, surfactant based formulations and aqueous based products

- pH-dependent efficacy
- Can be added at any point during the manufacturing process
- Hot and cold processable

Very convenient  
processing

### FORMULATION ADVICE

Improve performance in emulsions	Combination with antimicrobial surface active substance (e.g. <b>dermosoft® GMCY MB</b> ) recommended
Working at pH > 5.5	Increase dosage and combine with surface active booster
Consider electrolyte input	Check if emulsifier system is electrolyte stable

### APPLICATION IDEAS

Perfectly suitable especially for surfactant and water based products, and emulsions.

For more formulation ideas visit us at:

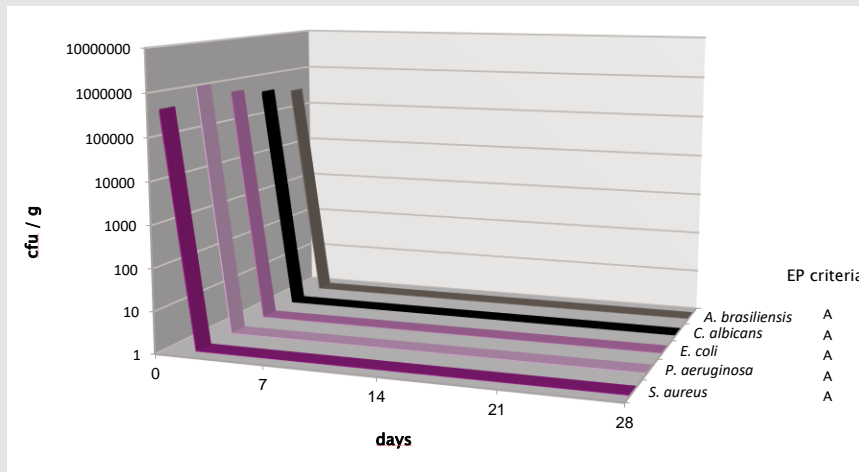
<https://www.dr-straetmans.de/en/products>

## Proof of Performance

### MICROBIOLOGICAL CHALLENGE TESTS

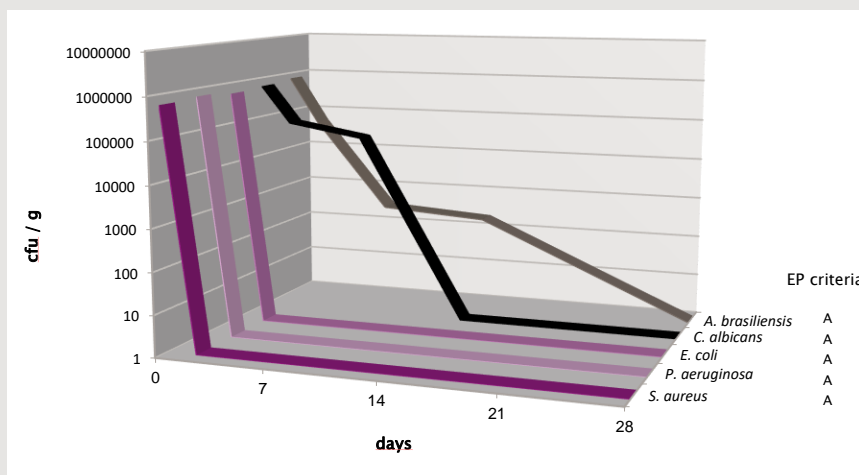
Performance in surfactant based products

Natural shower gel formulation with 2.0 % Verstatil® SL non GMO (pH 5.3)



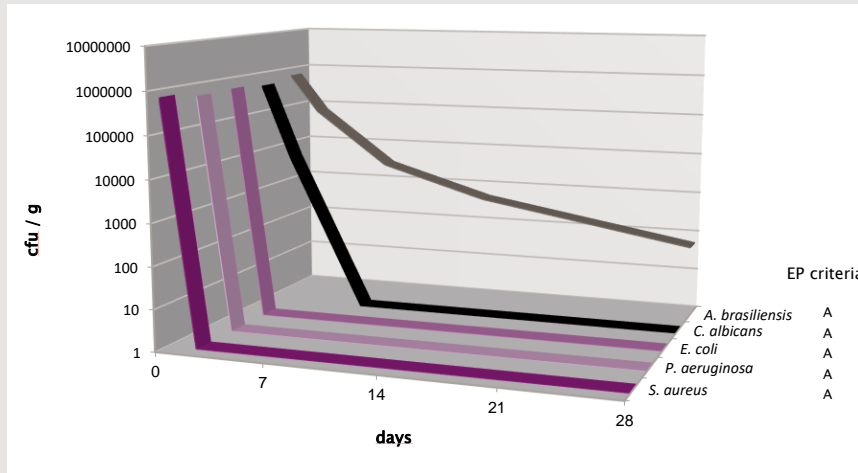
Performance in aqueous based products

Natural Sensitive Tonic with 1.5 % Verstatil® SL non GMO (pH 5.3)



Performance in O/W-emulsions in combination with a boosting co-active

Natural Body Butter (O/W) with 1.5 % Verstatil® SL non GMO and 0.3 % dermosoft® GMCY MB (pH 5.3)



Trade Information

International Approval*	EU, USA, Canada, China, Japan, Korea.
Packaging	25 / 200 / 1000 kg
Shelf life (stored in original container)	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, please contact:  
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