

Attività del prodotto

Emolliente

Idratante

Igienizzante

Antimicrobica

Protettiva

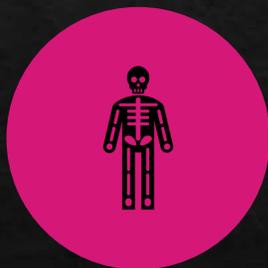
Azione
immediata e
fino a un'ora

Attiva su
batteri e
funghi

Ingredienti attivi



PHENYLPROPANOL



O-CYMEN-5-OL



ARGENTO
(MICROSILVER BG)



DECYLENE
GLYCOL

Microsilver BG (Silver)

What is

MicroSilver BG™?

MicroSilver BG™ is a **highly pure** porous Silver, with an average particle size of 10 micrometer, produced by a complex mechanical production process. Due to its powder form, it can very easily be worked into different kinds of products, e.g. cream, spray, lotion, shampoo, etc. The company BioEpiderm disposes this worldwide unique production process for MicroSilver BG™. The uses of MicroSilver BG™ are patent protected.

Microsilver BG

How does

MicroSilver BG™ work ? _____

Tested and
confirmed by
dermatest®
Medical Research
Company
and
INSTITUT
FRESENIUS

MicroSilver BG™ has a high **antimicrobial effect** and kills harmful germs and microorganisms on the surface of the skin. The skin condition improves and normalises quickly.

- It supports the skin's natural healing process
- Prevents dermatitis triggered by harmful microorganisms
- Calms stressed and irritated skin
- Soothes itchiness and redness
- Destroys odour causing bacteria
- Strengthens and normalises the natural skin flora

MicroSilver BG™ has a **highly effective depot effect**. All day long, Silver ions are released by oxidation from the highly porous Silver. These ions kill illness causing bacteria on the skin. The skin flora regenerates and the skin stays healthy.

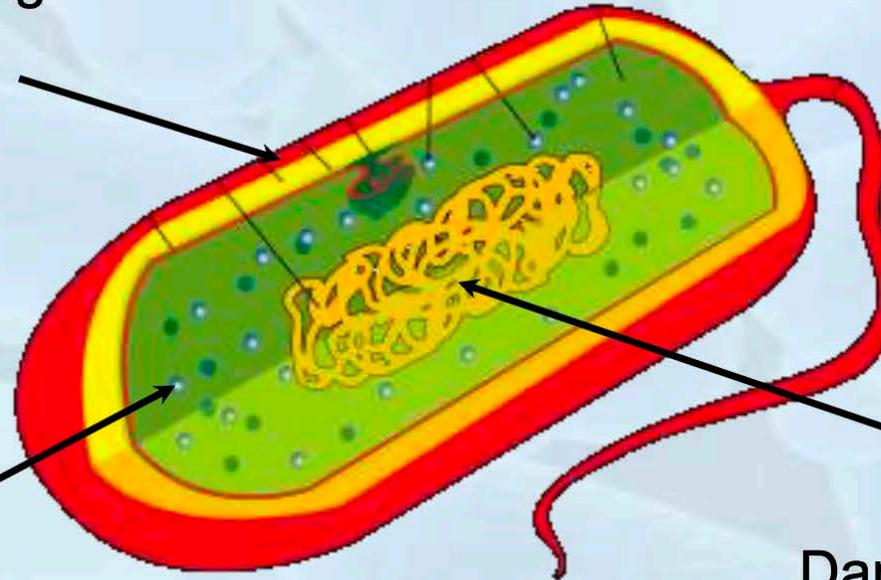
Silver: Most broad spectrum antimicrobial

*gram +ve / -ve bacteria
MRSA / MRSE
fungi / mold*

Silver functions via multiple mechanisms:

Breakdown of life-supporting functions by inhibition of trans-membrane transport proteins

Inactivation of intracellular enzymes



Damage of bacterial DNA
→ Bacteria can not reproduce

Silver ions bind to SH-groups in proteins.

These parts are essential to the life-supporting functions of the cells.

By inactivation of these life-supporting functions the bacterial cells break down and die.

MicroSilver BG™ – Summary of Effectiveness

Examples of microbes killed by MicroSilver



Human Pathogens

- *Acinetobacter baumannii*
- *Candida albicans*
- *Citrobacter freundii*
- *Corynebacterium striatum*
- *Corynebacterium xerosis*
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Escherichia coli*
- *Klebsiella pneumoniae*
- *Listeria monocytogenes*
- Multiresistant *Staphylococcus aureus* (MRSA)
- Multiresistant *Staphylococcus epidermidis* (MRSE)
- *Proteus mirabilis*
- *Pseudomonas aeruginosa* (normal & multiresistant)
- *Salmonella choleraesuis*
- *Staphylococcus aureus*
- *Staphylococcus epidermidis*
- *Streptococcus bovis*
- *Streptococcus intermedius*
- Vancomycin Resistant *Enterococcus* (VRE)

Animal Pathogens

- *Malassezia pachydermatis*
- *Pseudomonas aeruginosa*
- *Staphylococcus aureus*
- *Staphylococcus pseudintermedius*
- *Streptococcus bovis*

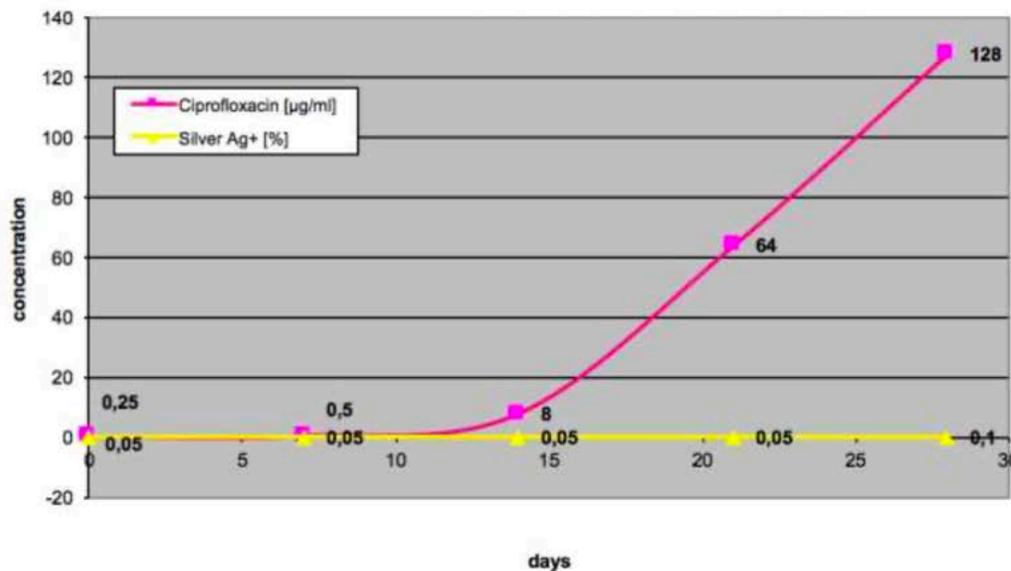
Oral Pathogens

- *Streptococcus gordonii*
- *Streptococcus mutans*
- *Streptococcus oralis*
- *Streptococcus sanguinis*

No resistance build-up against HyProtect & MicroSilver BG™: Example *Acinetobacter baumannii*



Acinetobacter baumannii Resistance Testing



Epidemiologisches Bulletin
Acinetobacter baumannii – ein Krankenhauskeim mit
beunruhigendem Entwicklungspotenzial

A. baumannii

Gram-negative pathogen
Causing urinary tract, wound-,
respiratory tract infections,
nosocomial pneumoniae, sepsis
High remanence on surfaces



During contact with
Ciprofloxacin the *Acinetobacter*
bacteria developed a
Cipro-resistance within 14 days.



During contact with
MicroSilver BG™ also over
weeks, no silver resistance
could be observed.



Aloe Vera + MicroSilver BG™ – Product Concept

Properties and synergies that can be exploited



Aloe Vera

- Aloe Vera is used in cosmetics because of its moisturizing, softening and regenerating effect on the skin.
- Some literature shows that Aloe Vera can have a slight anti-inflammatory effect and can also be weakly antimicrobial.
- Working also in deeper skin layers
- Natural Product

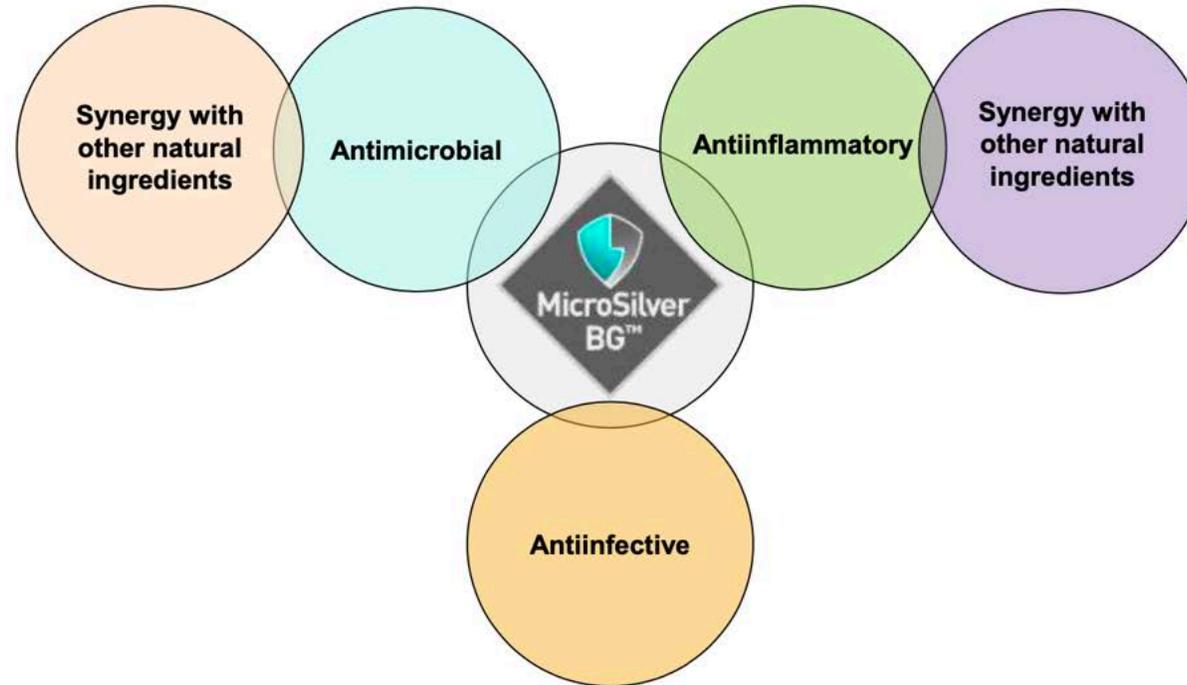
MicroSilver BG™

- Provides a good and long-lasting anti-inflammatory effect throughout the day
- Provides a board spectrum and long-lasting antimicrobial effect throughout the day
- At the same time, MicroSilver is still highly biocompatible and safe which is unique.
- Is working on top of the skin
- Natural Product

Products containing a combination of Aloe Vera and MicroSilver BG™ show synergistic anti-inflammatory and/or antimicrobial effects.

MicroSilver BG – the multifunctional additive

safe, effective, useful



But can we achieve
hygiene without
ingredients that impact
the environment?

Yes!
SymGuard® CD is readily
biodegradable

INCI (CAS)	Biodegradability	Most sensitive species (lowest acute eco-tox value)	Water Pol. Class
Phenylpropanol (122-97-4)	83%/28 days readily biodegradable	EC ₅₀ (48h) = 60.6 mg/L (Daphnia magna)	WGK 1
<i>o</i> -Cymen-5-ol (3228-02-2)	83%/28 days * readily biodegradable	ErC ₅₀ (72h) = 7.4 mg/L* (Algae)	WGK 2
Decylene Glycol (1119-86-4)	100%/28 days readily biodegradable	LC ₅₀ (96h) = 14.1 mg/L	WGK 2
SymGuard® CD (blend)	readily biodegradable	-	WGK 2

INCI: Phenylpropanol, o-Cymen-5-ol, Decylene Glycol



Product Number: 675075
Appearance: Clear colorless liquid
Odor: Low pleasant odor
Recommended Use Level: Up to 0.5%

FROM PREMIUM TO MASS MARKET

**NON-ORGANOHALOGEN
ALTERNATIVE TO
TRICLOSAN, TRICLOCARBAN**



**COMPLIANT WITH
COSMETIC REGULATIONS
IN MOST COUNTRIES
INCL. EUROPE, USA,
CHINA AND JAPAN**



**CLEAR,
COLORLESS LIQUID
EASY TO
FORMULATE**



**PATENT PENDING
WO2018036625A1**

FAST ACTION

**QUICKLY PROTECTS
THE SKIN**

**MODERN HYGIENE
TECHNOLOGY**



**ENVIRONMENTAL
FRIENDLY
READILY
BIODEGRADABLE**

MULTIFUNCTIONAL

**ANTIOXIDANT
ORAL CARE ACTIVE
DEODORANT**

MAIN APPLICATIONS :

- **PERSONAL WASH**
- **ORAL CARE**
- **HAND GELS**
- **DEOS**



Un prodotto unico Naturale al 98%

Indicato per la pelle
delicata di bambini e
anziani e chi soffre di
dermatite alle mani