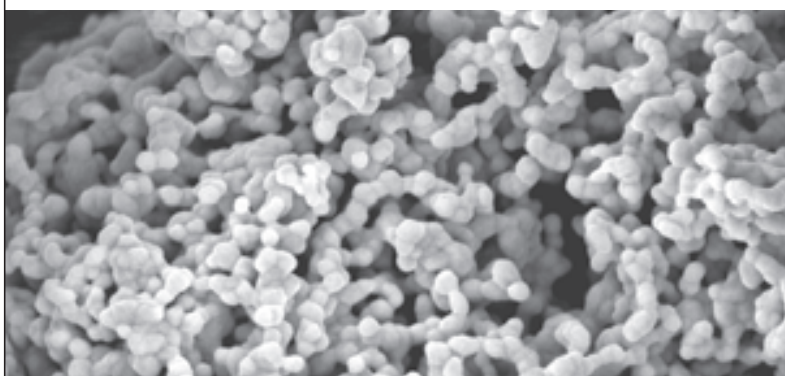


## Antibacterial actives

# Natural silver for the skin

**Barbara Reinhardt of BioEpi-derm shows, with the support of a research study, that the skin-tolerant and totally natural precious metal silver in the form of MicroSilver BG has an antimicrobial, anti-inflammatory and bactericidal action in skin care products.**



*The antibacterial action of silver has been known for centuries. In Egypt wounds were wrapped in silver foil, and Napoleon protected his troops from contaminated water by issuing water flasks with an internal silver coating*



**M**ore and more people suffer from skin problems which may go from unexplained itching, through redness as far as atopic diseases such as neurodermatitis. According to expert data more than 10 percent of all children and young people suffer at some time from a form of neurodermatitis. The cause often remains unexplained but it is known that external factors play a major role here. Allergens such as house dust, bacteria and micro-organisms can make the situation even worse.

In the field of dermo-cosmetic skin care help is available from the soothing active MicroSilver BG. The pure, metallic silver powder is produced without the addition of any other chemicals and has an anti-inflammatory and antimicrobial action. A skin care preparation containing this active releases silver ions over a long period.

This depot effect continuously destroys pathogenic microbes that penetrate the skin from external sources without affecting the skin's flora. The skin is freed from the causes of irritation or skin disease over an extended period and so can regenerate itself much more rapidly. The result is a stable, healthy and well-protected complexion. Products containing this active can be used for daily care to keep the skin healthy.

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Thanks to its high skin tolerance and its anti-inflammatory properties the active permanently supports regeneration of an irritated or inflamed complexion and can be used in the widest variety of products.

In a scientific study a cream containing 0.1 percent of the active was tested on patients with atopic complaints and produced very good results with respect to its antimicrobial and skin regenerative performance. The complexion returned to a normal condition, redness disappeared and bothersome itching was significantly reduced.

The fine, easy to process silver powder can be used in creams, lotions and sprays for body care, hand and foot care and facial care, as well as in shampoos and scalp care preparations and even oral hygiene products. Because there are zero side effects the active can also be used in child care formulations. In

addition it combines well with other healing actives such as panthenol.

In contrast to certain silver compounds MicroSilver BG has no effect on the skin's pH. It forms an invisible protective silver coating on the skin, regulates the bacterial balance and stabilises the skin flora.

#### A natural ingredient

The fine silver powder is an Ecocert registered ingredient and meets the relevant ecological standards for natural and bio-cosmetics. The 99.9 percent pure metallic silver is obtained from nature and, using a patented production process, pulverised by purely physical methods. The active is free from chemical or animal additives. The manufacturing process produces no chemical residue and there are no animal tests carried out on the ingredient for cosmetics purposes.

#### All silvers are not the same

The active substance, in contrast to chemical compounds of silver, offers the user and the personal care products manufacturer significant advantages. It is photo-stable and has, as the only form of silver, a depot effect. Furthermore it requires no carrier substance such as zeolites or citric acid. The quality and active mechanism of the ingredient are consistent. ■

Further information can be found on the Internet (see Internet button)

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