



Anti-Spot cream with nano silver effect

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Cite this study: Tekin, N., & Ayaz, F. (2022). Anti-Spot cream with nano silver effect. 4th Advanced Engineering Days, 12-13

Keywords

Coenzyme Q1
Nano silver
Camu Camu
Skin

Abstract

Recently, many stain creams have been produced. Creams are skin care products that should be used, even if there is no issue, to keep the skin's natural balance and stop damage from environmental factors. Cosmetics made using nanotechnology have the benefit of more product variety, increased bioavailability of active substances, and improved aesthetic appeal of cosmetics with long-lasting benefits. Nano silver's antibacterial, antiviral, and antimicrobial qualities make it important for health, and its therapeutic value makes it appealing for usage in medications and lotions. The production of ATP and maintaining membrane integrity are both functions of coenzyme Q10. By lessening oxidative skin damage brought on by UV radiation, it aids in skin protection. Antioxidant miracle Camu camu slows down age-related muscle degradation, protecting skin elasticity and preventing premature aging through cell regeneration. In other words, it results in a skin that is tighter.

Introduction

The basic goals of skin care are to keep the skin healthy and in good shape, to lessen signs of skin aging or to slow the emergence of new symptoms, and to help with the treatment of various skin conditions [1].

Nanotechnology holds a distinct role in the cosmetics industry because smaller particles are more readily absorbed into the skin and can cure damage more quickly and effectively. Nano silver has a size of one millionth of a millimeter. The antibacterial activation of silver that has been shrunk to this size thanks to nanotechnology is enhanced and becomes 100,000 times more potent than the silver we use on a daily basis [2]. Due to their extremely small volume, the nano-sized silver particles in nano silver creams quickly transition under the skin, aid the body in breaking down fat deposits, regardless of how resistant they may be, lessen the look of sagging skin, and have an impact on the body's tightening. The blood circulation quickens in this way. The body breathes more freely and receives nourishment from the vitamins and minerals in the product thanks to the enhanced blood circulation.

A fat-soluble, vitamin-like compound called coenzyme Q10 is present in practically all tissues. It is an effective lipophilic antioxidant and a cofactor of the cell's mitochondrial electron transport chain, both of which are necessary for the generation of ATP. Coenzyme Q10 promotes cell growth and prevents cell death. With its bioenergetic and antioxidative properties, coenzyme Q10 also has a protective effect on cells.

Due to its high vitamin C content, camu camu is frequently utilized to improve the immune system and is employed as an antioxidant.

Results

Silver was utilized in Roman culture as "silver water" to treat diseases and guard against bacteria and other microbes. It was additionally known as "holy water."

To use silver more effectively and efficiently today, it is now reduced to nano size.

The greatest therapeutic approach is nano silver since it quickly penetrates the skin due to its nano-sized particles, has antibacterial and antiviral qualities, has a deodorizing impact, has the ability to cure burns and wounds, and can be used to treat acne

We can keep bacteria and fungi from coming into contact with our body by putting Nano Silver-containing items to it.

Every cell contains coenzyme Q10 (also known as ubiquinol-10 and/or ubiquinone-10), a lipid-soluble substance that functions as a coenzyme in important enzymatic activities during cellular energy synthesis.

The maintenance of membrane stability, cell signaling, gene expression, cell proliferation, and apoptosis regulation are also said to be activities of coenzyme Q10.

Increasing bioavailability can also be achieved by reducing the particle size to the micro- or nanoscale.

The influence of absorption pathway and efficiency was noticed in lowering the particle size to nano size in order to boost bioavailability. Nanoparticle structures also aid in improving the bioavailability of compounds that aren't very soluble in water.

Both ATP generation and oxidative damage may be aided. The skin loses its youthful appearance over time for a variety of causes, including aging, diseases, hormonal changes, and environmental factors. With time, the skin loses its flexibility and its capacity to create collagen as well as to retain moisture. The Coenzyme Q10 antioxidants prevent cellular damage brought on by aging and external causes that harm the skin. It also tightens the skin by activating the collagen fibers because of its refreshing quality [4].

Anthocyanins, yet another form of antioxidant, are abundant in camu camu. This fruit has a high capacity for antioxidants, which makes it preventive against cancer. By lowering oxidative stress, the antioxidants in its composition inhibit the development of numerous cancer types.

This amazing fruit has 200 times the vitamin C of a banana, 56 times the vitamin C of a lemon, and 30–60 times the vitamin C of an orange. Brazilians regard these fruits that resemble red cherries as having the highest vitamin C content of any diet. Vitamin C and other phytochemicals, particularly beta-carotene, are essential antioxidants that support a healthy immune system and defend against bacteria and diseases.

Discussion

Nano silver does not interact with any cells in the human body and does not hurt them because of the cell membrane. As a result, other than providing the intended treatment, the silver ion employed in nanotechnology has no negative effects [5].

The body naturally produces CoQ10, but its production declines as we become older. CoQ10 is therefore externally supplied.

The antioxidant qualities of the camu camu fruit are also naturally exploited due to its high content.

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