

DSM Press Release

DSM Nutritional Products

Communications

Telephone (41) 61 815 75 03, Telefax (41) 61 815 88 90

Internet: www.dsmnutritionalproducts.com

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SYN[®]-GLYCAN: New peptide provides skin firming and remodeling from within by needle-free boosting of hyaluronan

DSM is pleased to announce the launch of SYN[®]-GLYCAN – a new peptide formula that can be used as a bioactive ingredient in cosmetic products to reduce the most visible signs of aging. This will be welcomed by the cosmetics industry, which has long been searching for ways to meet the increasingly higher expectations of consumers for effective anti-aging products.

SYN[®]-GLYCAN works in two ways. It boosts the skin's own production of hyaluronan as shown by in vitro experiments, which binds the dermal water into a gel-like form and protects and structures the skin's collagen and dermis cells. This compensates for the lower hyaluronan levels seen in mature skin, which loses its ability to bind water. By boosting the amount of hyaluronan in the dermis SYN[®]-GLYCAN firms skin from the inside out. SYN[®]-GLYCAN also increases decorin and lumican levels, two important proteins present in human skin which improve collagen fibers by making them thinner and stronger. Both of SYN[®]-GLYCAN's modes of action work together to reduce wrinkle formation and skin sagging – the most visible signs of aging.

Scientific trials have provided convincing evidence of SYN[®]-GLYCAN's efficacy in remodeling facial contours. When tested in normal human fibroblasts, SYN[®]-GLYCAN peptide was shown to increase skin-identical hyaluronan synthesis by a factor of 4, while also boosting production of decorin (73%) and lumican (66%). A double-blind study was also performed with 40 female volunteers aged 55–65 and demonstrating visible skin sagging. In addition to noticing improvements in the firmness of their skin, the participants reported that it felt softer and more hydrated. In fact, SYN[®]-GLYCAN significantly increased tension by 3%, tonicity by 17% and firmness by 7%.

“SYN[®]-GLYCAN has already been met with a great deal of enthusiasm by key players in the cosmetics industry,” says Dr. Goede Schueler, Senior Business Development Manager for Skin Care. *“Part of its appeal lies in the versatility of the product, which is suitable for a wide range of cosmetic applications.”*

SYN[®]-GLYCAN comes in a glycerin-based aqueous solution, safe for cosmetic use and easy to formulate. It can be used in firming treatments, facial contour and remodeling creams, anti-sagging treatments, moisturizing (from within) lotions, anti-aging (filling wrinkles from within) solutions and anti-cellulite gels.

About DSM Nutritional Products

DSM Nutritional Products is the world's leading supplier of vitamins, carotenoids and other fine chemicals to the feed, food, pharmaceutical and personal care industries. The business has sales of over EUR 2 billion and a long tradition as a pioneer in the discovery of new products, new formulations and attractive applications for all industry segments. More information at www.dsmnutritionalproducts.com

About DSM – the Life Sciences and Materials Sciences Company

Royal DSM N.V. creates innovative products and services in Life Sciences and Materials Sciences that contribute to quality of life. DSM's products and services are used globally in a wide range of markets and applications, supporting a healthier, more sustainable and more enjoyable way of life. End markets include human and animal nutrition and health, personal care, pharmaceuticals, automotive, coatings and paint, electrical and electronics, life protection and housing. DSM has annual net sales of EUR 9.3 billion and employs some 23,500 people worldwide. The company is headquartered in the Netherlands, with locations on five continents. DSM is listed on Euronext Amsterdam. More information: www.dsm.com

For more information:

DSM Nutritional Products
Charlotte Frederiksen
Tel: +41 (0)61 815 83 54
Fax: +41 (0)61 815 88 90
E-mail: charlotte.frederiksen@dsm.com

Forward-looking statements

This press release contains forward-looking statements. These statements are based on current expectations, estimates and projections of DSM, and information currently available to the company. The statements involve certain risks and uncertainties that are difficult to predict and therefore DSM does not guarantee that its expectations will be realized. Furthermore, DSM has no obligation to update the statements contained in this press release. The English-language version of the press release is leading.