SYN®-Peptides
Revealing the Power of Visible, Targeted Effects
The SYN®-Peptides portfolio

At DSM we believe that the quest for perfect skin is a powerful driver for scientific research. And we are convinced that our small synthetic peptide molecules are making a big difference, opening up new dimensions in skin care to deliver ultimate results.

DSM has developed a unique and proprietary portfolio of synthetic molecules with low molecular weight and high efficacy – the SYN®-Peptides range. Each individual SYN®-Peptide offers a specific skin benefit based on substantiated efficacy. The range is proven to be highly effective in the fight against even pronounced skin ageing concerns.

As a pioneer in synthetic peptides, DSM owns a patented portfolio of SYN®-Peptides. Our in-depth knowledge of peptide processing technology and formulation ensures quality and flexibility over the whole production process at scale. SYN®-Peptides are offered as stable compositions easy to blend into various skin care applications. The unique peptide structure is aimed to target specific processes and to guarantee visible results.
Proteins and peptides play an important role in the beauty of skin as structural components such as collagen, elastin and laminin, and as inhibitors and stimulating agents such as growth factors like TGF-β or regulators of biochemical processes.

At DSM, we use our bright science to develop very small-sized but potent tri- and tetra-peptides that are more likely to ensure visible, targeted effects. Their increasing success is based on the fact that they are trusted as biologically-active ingredients and that they perfectly fit consumer desires for powerful ingredients based on scientific breakthroughs.

The design of SYN®-Peptides is inspired by naturally-occurring proteins and peptides. Our state-of-the-art peptide synthesis technologies allow tailor-made modification to mimic natural peptide activity. Thanks to their activity and stability, SYN®-Peptides help to maximize the value of cosmetic formulations.

Our entire SYN®-Peptides range is offered in a stable glycerin/water base with no additional preservative system. This allows broad application in most cosmetic formulas at the low level of 1 to 4%. Each SYN®-Peptide is claim-substantiated based on thorough in vitro and in vivo study results, and comes with formulation guidance.

What makes the SYN®-Peptides portfolio unique?
The SYN®-Peptides Portfolio

SYN®-TACKS
Boosting beauty through the dermal-epidermal junction
A well-folded dermal-epidermal junction (DEJ) is the basis for healthy, firm skin. As we get older, the DEJ becomes flatter and less well organized, resulting in wrinkles and other signs of aging. SYN®-TACKS restores DEJ function by boosting the synthesis of hemidesmosomal proteins. It increases elasticity, firmness and suppleness, so that skin looks and feels younger within weeks.

SYN®-COLL
Reverse visible signs of photo-aging in just 4 weeks
SYN®-COLL – a small molecular synthetic peptide – has been designed to prevent the formation of wrinkles and to reduce their appearance. The SYN®-COLL molecule has a dual effect. Firstly, it boosts collagen by mimicking the human body's own mechanism to activate latent transforming growth factor beta, TGF-β (Tissue Growth Factor), a key element in the synthesis of collagen. It also protects collagen from degradation through the inhibition of matrix metalloproteinases (MMP). Both activities work synergistically to maintain complete structural integrity of the skin.

SYN®-AKE
Stop wrinkling – keep laughing
Facial expressions are part and parcel of daily communication. Young skin is resilient to involuntary muscle contractions of the face, but older skin develops expression lines, such as crow’s feet and forehead wrinkles. Let your face relax without losing the ability to express yourself. SYN®-AKE’s effect reduces the appearance wrinkles, and is fast acting, long-lasting and fully reversible.

SYN®-HYCAN
Firming and remodelling by hyaluronan from within
Loss of skin firmness is one of the very visible signs of aging. SYN®-HYCAN helps fight skin sagging by boosting hyaluronan content in the skin. The tripeptide also increases the expression of decorin and lumican, two important proteoglycans, which support the formation of new collagen fibrils and increase their quality and strength. Fresh hyaluronan and stronger collagen fibrils result in a visible remodeling effect.

SYN®-EYE
Lineless eyes within 7 days
SYN®-EYE combines the latest SYN®-peptide technology with superior bioactives in a multifunctional eye care formula. SYN®-EYE helps to improve skin texture and smoothens the delicate skin eye area. Within just 7 days SYN®-EYE visibly reduces the appearance of lines and wrinkles around the eyes and after 14 days a brighter skin color in the dark circle area was perceived. Alongside the outstanding anti-ageing results, the clinical study showed very high consumer acceptance in all key aspects of eye care compared to benchmark.

SYN®-STAR™
The Global Beauty Maximizer
SYN-STAR™ – an innovation based on existing patented peptide technology – showed, for the first time, a global anti-ageing and mattifying effect in a study on three different skin tones. The enzyme PLOD3 (procollagen-lysine, -oxoglutarate 5-dioxygenase 3) is known to be important for the stability of intermolecular collagen crosslinks. New in-vitro tests confirmed that SYN-STAR™ stimulates PLOD3, increasing collagen stability, specifically in mature skin, by a factor of more than 4.

In an in vitro assay SYN-STAR™ was shown to inhibit DPP4 (dipeptidyl peptidase-4), a key enzyme involved in sebum flow. A survey of volunteers, 83% of women agreed that they felt more confident and ready for a fabulous day after a 4% treatment with SYN-STAR™.

NEW
SYN-UP™
Boost the skin’s resilience for confidence in great looking skin
Today we know that skin resilience is all-important. Skin with high resilience offers new opportunities to act sustainably against dry skin conditions. DSM therefore designed SYN-UP™, a unique patented synthetic peptide derivative, to restore the skin’s youthful resilience to dry skin conditions. SYN-UP™ has a great capacity to rebalance urokinase and plasmin. It provides a perceivable defense against dry skin conditions and unpleasant sensations, meaning consumers can have confidence in achieving great looking skin.
Revealing the Power of Beauty

At DSM we believe that beauty enriches people’s lives.

With a passion and sense of beauty woven into the very fabric of our organization, our vision is to deeply engage with our customers to realize beauty’s true potential.

That’s why we continually challenge ourselves to understand in depth our customers’ needs, their brands and people’s beauty aspirations worldwide. These insights drive us every day to reveal beauty’s power.

With foresight and imagination we connect and leverage our bright science in Skin, Sun and Hair Care to craft transformational beauty care ingredients and concepts that are loved – for superior performance, ultimate sensations and impeccable quality and reliability.

All our creativity and solutions-based thinking is dedicated to inspiring our customers worldwide, allowing us to create together a brighter, more beautiful world for people today and generations to come.

For more information, please visit us online at www.dsm.com/personal-care

Europe
DSM Nutritional Products Europe Ltd.
P.O. Box 2676, 4002 Basel
Switzerland
Phone: +41 61 815 7777
Fax: +41 61 815 7860
Email: info.pc-emea@dsm.com

Asia Pacific
DSM Singapore Industrial Pte Ltd.
trading as DSM Nutritional Products Asia Pacific
30 Pasir Panjang Road
Mapletree Business City #13-31
Singapore 117440
Phone: +65 6632 6617
Fax: +65 6632 6600
Email: info.pc-apac@dsm.com

North America
DSM Nutritional Products, LLC
45 Waterview Boulevard, Parsippany, NJ 07054
United States of America
Phone: +1 800 526 0189
Fax: +1 973 257 8580
Email: info.pc-na@dsm.com

Latin America
DSM Produtos Nutricionais Brasil S.A.
Avenida Engenheiro Billings, 1729 – Prédio 31
Sala A - CEP:05321-010, São Paulo – SP
Brasil
Phone: + 55 11 3760 6409
Fax: + 55 11 3760 6492
Email: info.pc-latam@dsm.com

© 2016 DSM Nutritional Products, 4002 Basel, Switzerland. www.dsm.com/personal-care
All rights reserved. No part of this brochure may be reproduced, distributed or translated in any form or by any means, or stored in a database or retrieval system, without the prior written permission of DSM Nutritional Products AG (“DSM”). While making reasonable efforts to ensure that all information in this brochure is accurate and up to date, DSM makes no representation or warranty of the accuracy, reliability, or completeness of the information. Use of this information shall be at your discretion and risk. Nothing herein relieves you from carrying out your own suitability determinations and tests and from your obligation to comply with all applicable laws and regulations and to observe all third party rights. The uses and claims for DSM’s products recommended in the brochure should be adapted to the current local regulatory environment. We disclaim any and all liability in connection with your product or its use.