

BeauActive™ MTP

The milky way of care

a **DSM** Product



 beauactive™ MTP

DSM Nutritional Products

Unlimited. **DSM**



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A breakthrough in peptide research

Products containing peptides have been used for centuries in facial and body care. There is good reason for the many legends telling of the positive effects of such products on the skin.

It is now known that the principal agents responsible for this famous skin care effect are bioactive peptides, wherein tripeptides are one of the main active ingredients.

However, despite their potential skin care properties other currently available peptides for cosmetic products may have the disadvantage of: instability of cosmetic formulation, high price for synthetically manufactured peptides and the lack of scientifically proven effectiveness.

With the development of BeauActive™ MTP, DSM has achieved a breakthrough in peptide design that opens new possibilities for novel skin care products.

BeauActive™ MTP is a unique product – a superior combination of a natural raw material and DSM's leading enzyme technology.

BeauActive™ MTP contains primarily tripeptides and has the INCI name of hydrolyzed milk protein. BeauActive™ MTP is cost effective, hypoallergenic and can easily be processed in cosmetic formulations. The bioactivity of BeauActive™ MTP has been proven to have immediate and long term effects by an extensive amount of scientific data – both in vitro and in vivo.

BeauActive™ MTP provides:

- a radiant and youthful appearance
- an instantly smoother, softer appearance of skin
- an improved, refined skin texture
- a long term reduction of lines and wrinkles

BeauActive™ MTP

Product Concepts and recommended dosage

BeauActive™ MTP as cost effective, naturally based product, with outstanding scientifically proven efficacy and toxicologically safe profile, can be used in all typical skin care products for face and body.

Usage concentration is up to 0.5%

Good compatibility in various emulsifier systems is given.

DSM Nutritional Products has developed innovative guidelines for formulation. Detailed formulation guidelines and model recipes with BeauActive™ MTP are available on request.

Feel free to ask for them!



BeauActive™ MTP

Refining the skin texture

With different in vitro and in vivo scientific studies DSM Nutritional Products could show that BeauActive™ MTP refines the skin appearance (Figure 1).

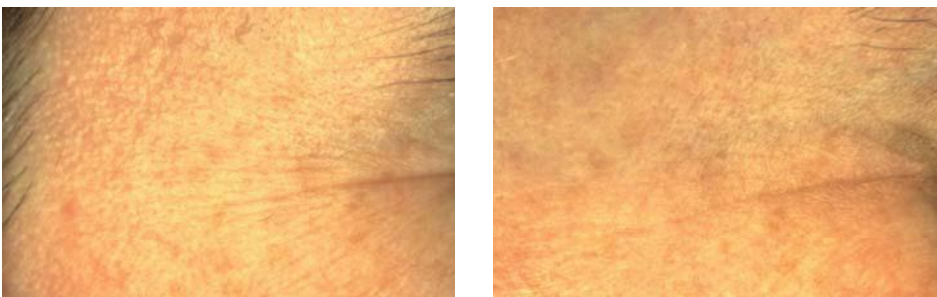


Figure 1: Before and after application

- Reduction of deep wrinkles as shown by skin profilometry with significant reduction of deep wrinkles (Figure 2).

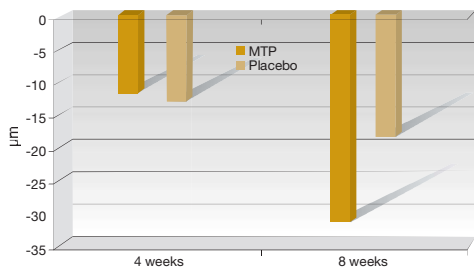


Figure 2: Reduction of deep wrinkles

- Even the reduction of fine lines is shown after application of BeauActive™ MTP (Figure 3).

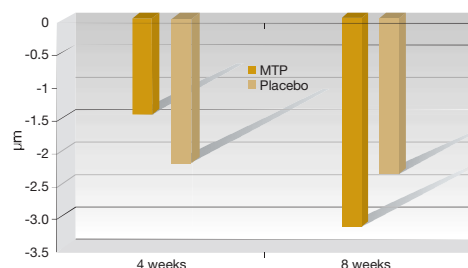


Figure 3: Reduction of fine wrinkles

- Collagen I induction in fibroblasts by BeauActive™ MTP has been proven even at very low concentrations (Figure 4).

BeauActive™ MTP

Rejuvenate Skin cells and collagen induction

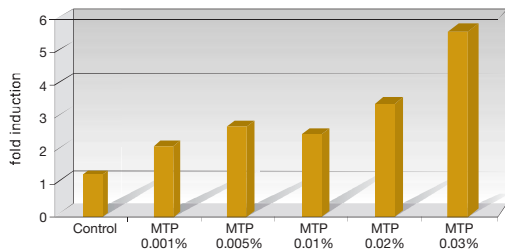


Figure 4: Collagen I induction

- In comparison with other products ("A") it could be shown that BeauActive™ MTP is much more effective in Collagen I induction (figure 5)

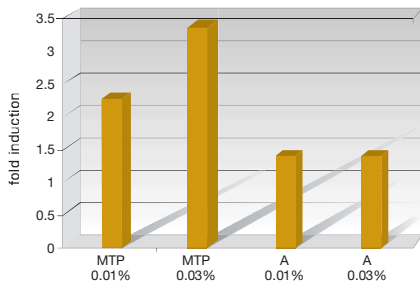


Figure 5: Comparison Collagen I induction

- Cell proliferation studies showing that BeauActive™ MTP is effective even in low concentrations to stimulate the skin renewal by increasing the cell proliferation of keratinocytes and fibroblasts (Figure 6).

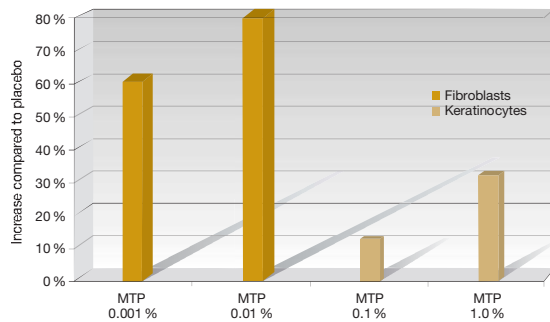


Figure 6: Increased cell proliferation of keratinocytes and fibroblasts

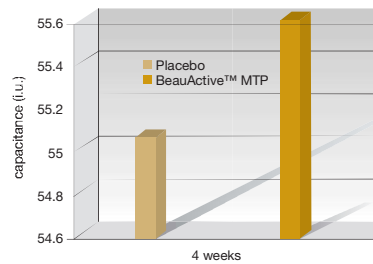


Figure 7: Improvement of skin moisturizing.

With BeauActive MTP also immediate effects could be shown by improving skin moisture (Figure 7). Therefore BeauActive™ MTP combines ideally immediate and long term effects on skin, which was also seen in panellist rating.



BeauActive™ MTP

Panellist Rating and Product Concepts

- Panellists Rating supported the scientific results that BeauActive™ MTP gives a:
- more radiant and juvenile look
- better immediate soft and smooth look
- improved refined skin picture and
- enhanced reduction of wrinkles and fine lines compared to placebo.

Anti Aging Day Care Cream with BeauActive™ MTP

Skin smoothing cream with BeauActive™ MTP (special tripeptides) for collagen induction and significant reduction of deep and fine wrinkles

Ingredients	% w / w
Dicaprylyl Ether	8.00
Cetearyl Isononanoate	8.00
Cetyl Alcohol	2.00
Phytantriol	3.00
Dimethicone	3.00
AMPHISOL® K	2.50
Acrylates/C10-30	
Alkyl Acrylate Crosspolymer	0.30
BHT	0.05
Preservativ	q.s.
Propylene Glycol	2.00
Disodium EDTA	0.10
Aqua	ad 100
Potassium Hydroxide	1.20
Aqua	2.00
BeauActive™ MTP	0.50

Figure 8: Guide formulation

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