

**VERISOL<sup>®</sup>**  
Beauty from Within



## Beauty from within – with VERISOL<sup>®</sup>

- Elasticity improvement
- Wrinkle reduction
- Cellulite decrease
- Nail improvement

**GELITA**  
Improving Quality of Life

# Collagen – The Body Protein!

Collagen is a major component of the human body. About 30% of our total body protein is collagen. Collagen is crucial for mobile joints, stable bones, healthy muscles, strong ligaments and tendons, smooth skin, glossy hair and healthy finger nails. It is one of the primary structural proteins of connective tissues and also abundant in blood vessels, intervertebral discs, the blood-brain barrier, the cornea, dentin and the intestinal wall – a vital component of our whole body.



## ! Bioactive Collagen Peptides® stimulate collagen metabolism

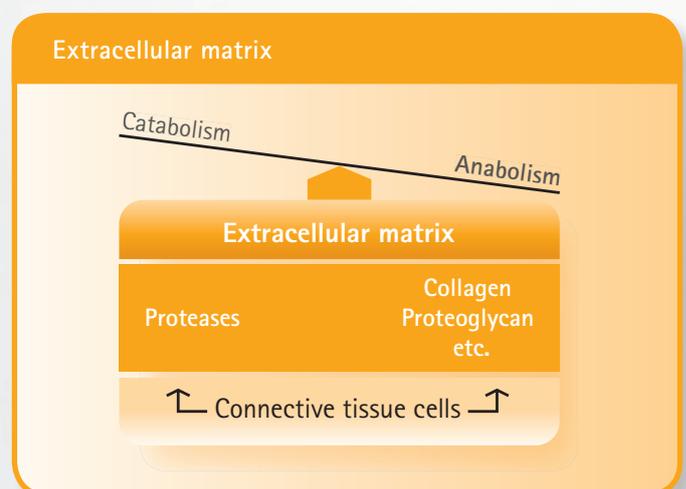
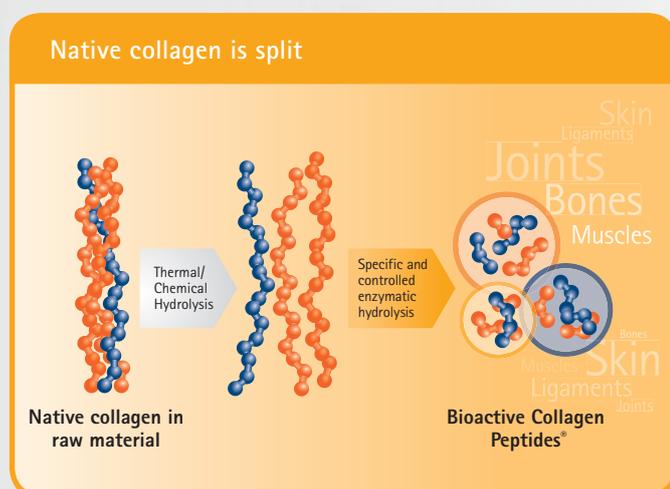
GELITA Bioactive Collagen Peptides® (BCP) are a composition of different specific peptides optimized for specific physiological benefits. The peptides are derived from a highly controlled production process of collagen which is determined by hydrolysis conditions. As a result, GELITA Bioactive Collagen Peptides® differ in physiological functionality. They are optimized to maximize stimulation of the human cell types involved in collagen biosynthesis.

The effect of collagen peptides on increased extracellular matrix synthesis is based on two mechanisms:

- 1) Supply of typical collagen amino acids as valuable building blocks
- 2) Stimulate cell synthesis

### Bioactive Collagen Peptides®

Skin Health	Fibroblasts	VERISOL®
Joint Health	Chondrocytes	FORTIGEL®
Bone Health	Osteoblasts/Osteoclasts	FORTIBONE®
Body Toning	Muscle cells	BODYBALANCE®
Ligaments/Tendons	Ligamentocytes/Tendocytes	TENDOFORTE®



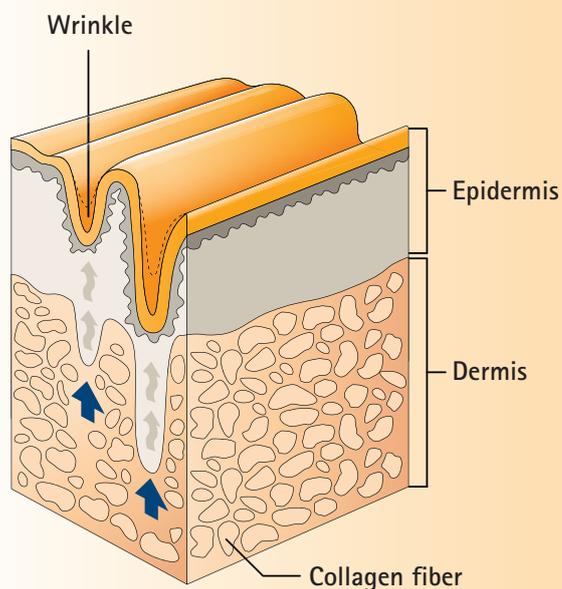
## Use the natural power of collagen – with VERISOL®

Collagen is the major structural component of skin, comprising about 80 % of its dry weight. Skin properties are known to be affected by endogenous and environmental factors including aging, ultraviolet radiation, hormones and nutrition. VERISOL® can stimulate skin metabolism and counteract the loss of collagenous extracellular matrix from the inside. Consumers who ingest the natural Bioactive Collagen Peptides® VERISOL® specially optimized for beauty applications can experience noticeably firmer and smoother skin with fewer wrinkles. The positive effect of VERISOL® also shows in an improved skin surface structure, reducing cellulite and a faster nail growth with reportedly less chipping of fingernails.

## Mode of Action

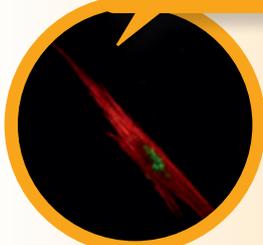
The specific peptides of VERISOL® are recognized by the fibroblast cells in the dermal layer of the skin as collagen fragments like those resulting from catabolic activities. Therefore they are stimulated to increase their collagen metabolism to counter-balance the pretended collagen degradation in the dermis. The result is a considerably higher production of dermal collagen and overall extracellular matrix, replacing what is lost through aging and environmental influences.

Orally applied, VERISOL® systematically effects the collagen metabolism in the dermis rather than just reaching the outer layers of the skin like creams and other topical products do.



### Collagen synthesis in vitro

Without stimulation



Stimulation with VERISOL®



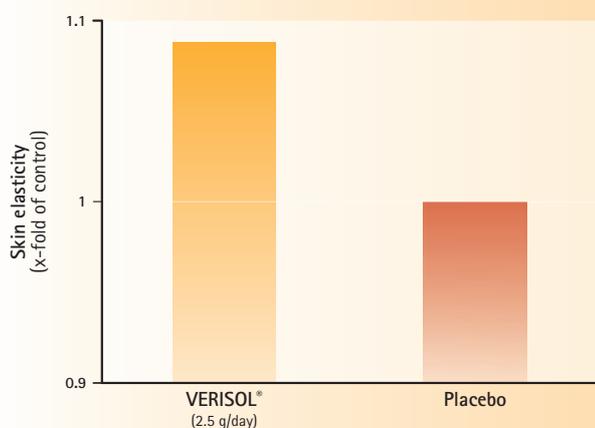
## ! Significant improvement of skin health

VERISOL® consists of special collagen peptides – important components for supporting healthy skin. Administered orally, VERISOL® influences the skin's collagen metabolism directly from the inside. It increases the skin moisture and delays the formation of wrinkles. Several scientific experiments investigated the potential of VERISOL®.

## ! Higher skin elasticity<sup>1</sup>

The first study with 69 women aged between 35 and 55 years revealed that VERISOL® leads to significantly higher skin elasticity – up to 15 % – compared to placebo treatment. This effect could be measured after just 4 weeks of treatment and persisted after 8 weeks of oral VERISOL® administration. Another 4 weeks after the last intake of the product, VERISOL® application still showed higher skin elasticity levels than in the placebo treated group.

Skin elasticity increased significantly after oral VERISOL® treatment in comparison to placebo administration.



<sup>1</sup> Oral Supplementation of Specific Collagen Peptides Has Beneficial Effects on Human Skin Physiology: A Double-Blind, Placebo-Controlled Study  
Proksch E., Segger D., Degwert J., Schunck M., Zague V., Oesser S.  
Skin Pharmacol Physiology, August 2013

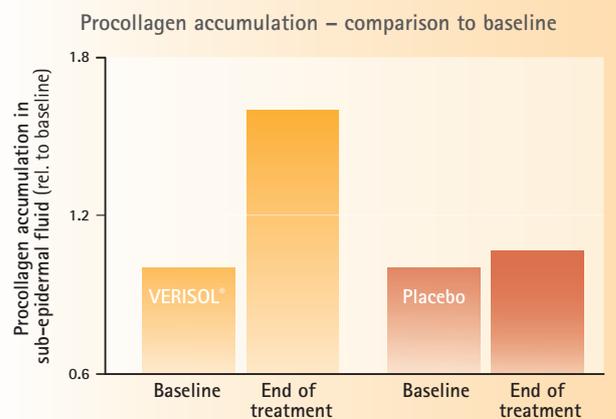
## Wrinkle reduction



### Reduction of wrinkles<sup>2</sup>

The second study with more than 100 women aged between 45 and 65 years shows that the oral administration of VERISOL® (2.5 g/day) significantly reduces wrinkles after 4 weeks and leads to a significantly higher skin procollagen concentration.

VERISOL® significantly reduces wrinkles:  
The collagen in the skin increases by 60%.



<sup>2</sup> Oral Intake of Specific Bioactive Collagen Peptides Reduces Skin Wrinkles and Increases Dermal Matrix Synthesis  
Proksch E., Schunck M., Zague V., Segger D., Degwert J., Oesser S.  
Skin Pharmacol Physiology, December 2013

## Improved skin surface structure and decrease of cellulite

About 85 % of the global female adult population is affected by cellulite (the orange peel appearance of skin). Cellulite is a beauty aspect, not a disease, but many women suffer from this beauty flaw. Cellulite is mainly caused by dermal matrix disturbances, in combination with excess of subcutaneous fat, bulging into the dermis as well as excess of interstitial fluid.

VERISOL® supplementation has beneficial effects on the dermal extracellular matrix of the skin and can help to decrease cellulite. Contrary to current cellulite supplements that mainly address the aspects of excessive fat or microcirculation/drainage, VERISOL® directly stimulates the extracellular matrix formation in skin.



## Significant decrease of cellulite score<sup>3</sup>

A double blind, randomized, placebo controlled study with 105 women aged between 25 and 50 years shows that the daily oral intake of 2.5g VERISOL® significantly decreases the cellulite score. The effect was measured after 3 and 6 months supplementation. VERISOL® has a beneficial effect on skin extracellular matrix and restores the normal structure of the dermis and subcutaneous tissue. VERISOL® supplementation also reduced the waviness of the skin, with first results visible after 3 months, but more pronounced after 6 months. With a daily dose of 2.5g VERISOL® the appearance of cellulite women with a BMI <25 was significantly reduced.

As part of the study, changes in the dermal density were investigated. The two ultrasound scans show side by side the skin of a participant in the placebo group compared to the skin of a participant from the VERISOL® group. The increase in elastin and collagen is clearly visible.

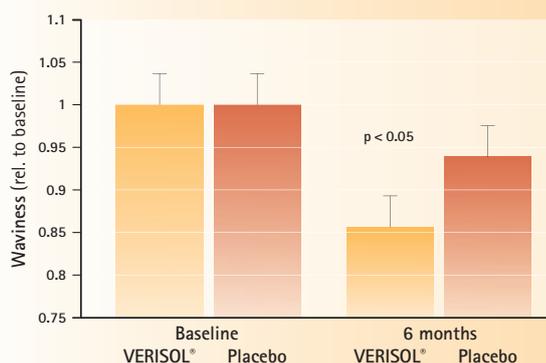
### Density of dermis (ultrasound measurement)



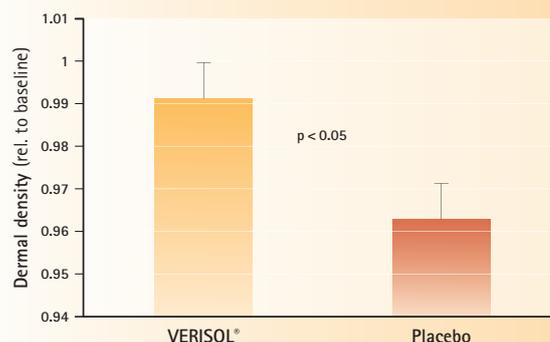
Colors represents the intensity strength of the acoustic response from the skin, thus skin density – mainly collagen. Dark/green color indicates low intensity, yellow/bright color indicates high intensity.

<sup>3</sup> JOURNAL OF MEDICINAL FOOD, J Med Food 00 (0) 2015, 1–9, DOI: 10.1089/jmf.2015.0022, Dietary Supplementation with Specific Collagen Peptides Has a Body Mass Index-Dependent Beneficial Effect on Cellulite Morphology  
Michael Schunck, 1 Vivian Zague, 2 Steffen Oesser, 1 Ehrhardt Proksch, 3

### Significant decrease of waviness



### Significant higher dermal density after 6 months



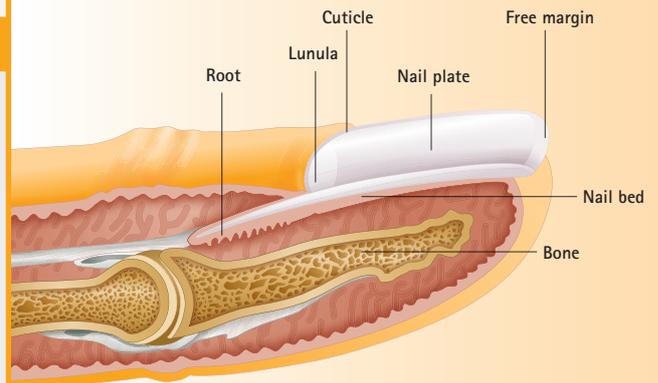
## Improved growth of nails

### Promoting growth and health of fingernails<sup>4</sup>

For many women, well-groomed fingernails are an inseparable part of an attractive appearance. But many women suffer from cracked or chipped nails as well as nail peeling and nail roughness. The Bioactive Collagen Peptides® VERISOL® can help to improve growth and health of fingernails.

The different positive effects of VERISOL® are shown in a recent study. The study shows a decrease of cracked and/or chipped nails after 2 months of treatment, reaching a decrease of 42 % after 6 months. Compared to the control group, the nail growth speed is increasing. VERISOL® led to a statistically significant improvement in nail growth after 3 months of treatment.

The Bioactive Collagen Peptides® of VERISOL® improve growth and health of fingernails.



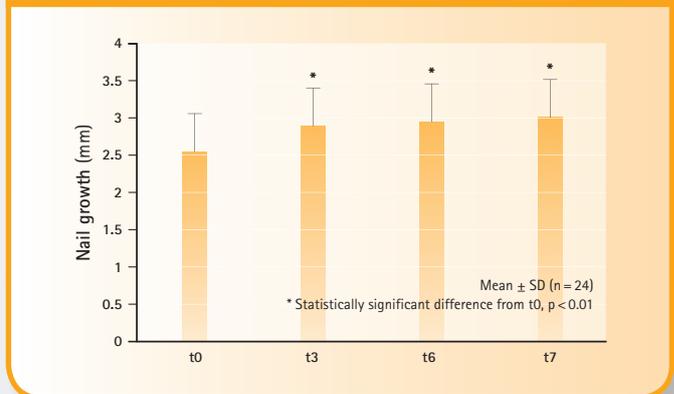
At the same time, there's a notable improvement in nail peeling and a clearly decreased nail edge irregularity. 80 % of the patients were completely satisfied and satisfied with VERISOL® treatment. 75 % of the women perceive their nails as longer, 71 % said their nails grew faster and became longer.

<sup>4</sup>One-Way ANOVA, Fischer post-test, publication pending

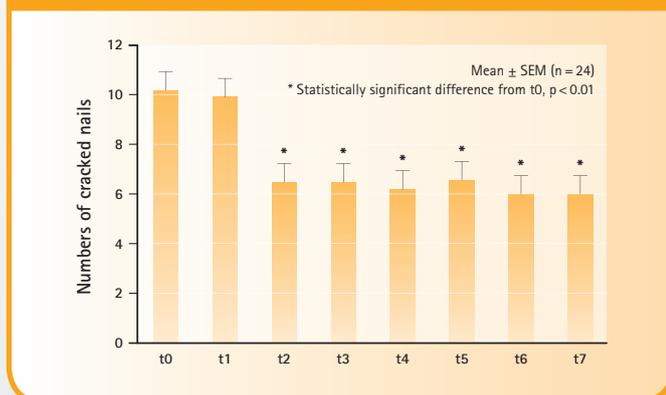
#### Nail damages



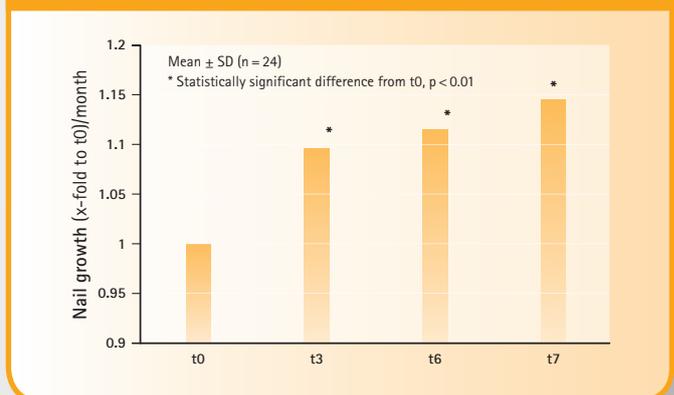
#### Nail growth speed (mm/month)



#### Frequency of cracked nails/nail resistance



#### Nail growth speed (x-fold of control)



## Women trust collagen!

VERISOL® has enormous potential in the growing market of beauty and skin-improvement supplements, addressing skin issues from the inside-out. The use of collagen in cosmetics is already common for women – what's new on the western market is its stimulatory effect after oral intake. In Japan, however, which leads the way in the field of beauty care, foodstuffs containing collagen are already well established. This trend is also expected to spread quickly in Europe and the USA.

VERISOL® addresses the main concerns of women with regard to aging skin: elasticity and firmness as well as wrinkles and cellulite. It is supported by the belief in the effectiveness of "Beauty from within" anti-aging measures. The majority of women are familiar with the term "collagen". Since collagen is a substance that is produced by the body, it is perceived as being "natural". VERISOL® represents a real alternative to all available anti-aging measures, possibly even including the more drastic measures, due to the relatively short period of time needed to achieve visible effects. Last but not least, it provides consumers with the opportunity to enhance their personal care and to do "something good" for themselves.



*VERISOL® has enormous potential in the growing market of nutraceuticals – worldwide.*



*Beauty from within – VERISOL® represents a real alternative to all available anti-aging measures.*

## The perfect beauty care, without missing out on pleasure!

VERISOL® optimizes and enhances many products, from liquids to solids, from coated tablets, through dietary drinks, to luxury foodstuffs such as chocolate.

**VERISOL®**  
promotes 

- clean label (no E numbers)
- highly digestible food
- non-allergenic food
- scientific evidence



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GELITA AG · Uferstr. 7 · 69412 Eberbach · Germany · [www.gelita.com](http://www.gelita.com)

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