

# Bioactive Collagen Peptides<sup>®</sup> stimulate the body's own collagen metabolism



Body Toning

**BODYBALANCE<sup>®</sup>**  
Performance Peptides

Beauty from Within

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

Bone Health

**FORTIBONE<sup>®</sup>**  
Collagen Matrix Stimulation

Joint Health

**FORTIGEL<sup>®</sup>**  
The Joint Health Revolution

Osteoporosis



Normal bone matrix



Strong Ligaments and Tendons

**TENDOFORTE<sup>®</sup>**  
For Connective Strength



**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

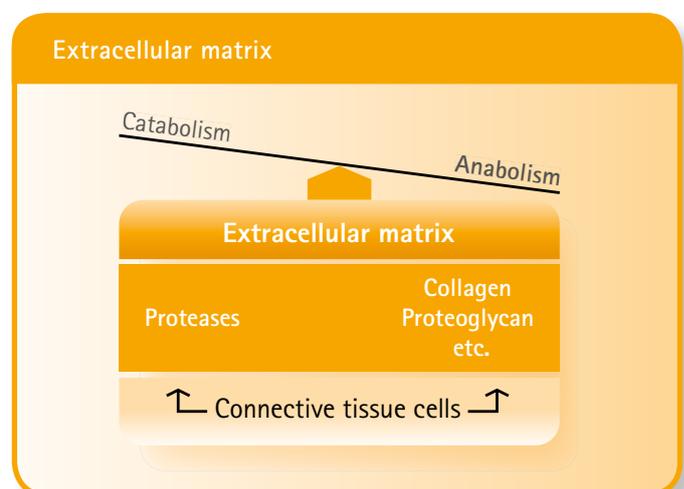
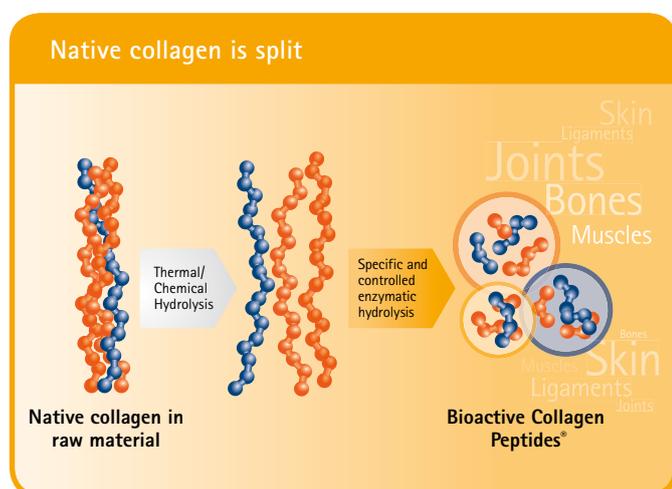
GELITA Bioactive Collagen Peptides® (BCP) are a composition of different specific peptides optimized for specific physiological benefits. The peptides are derived from a highly controlled production process of collagen which is determined by hydrolysis conditions. As a result, GELITA Bioactive Collagen 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®



**!** **BODYBALANCE® –**  
**Improve and maintain fitness**  
**and shape**

Collagen is an important protein source, providing the nutrients required for the many processes that take place in muscles and cells. Physically active people especially have an increased requirement for protein supply. But elderly populations can also benefit from regular supplementation of protein because aging is associated with loss of muscle mass and muscle strength along with an increase in body fat.

With BODYBALANCE®, GELITA offers specific Bioactive Collagen Peptides® optimized to support body toning and increase of muscle strength in combination with resistance exercise. Protein consumption is one of the most crucial nutritional factors for maintaining muscle mass and muscle function

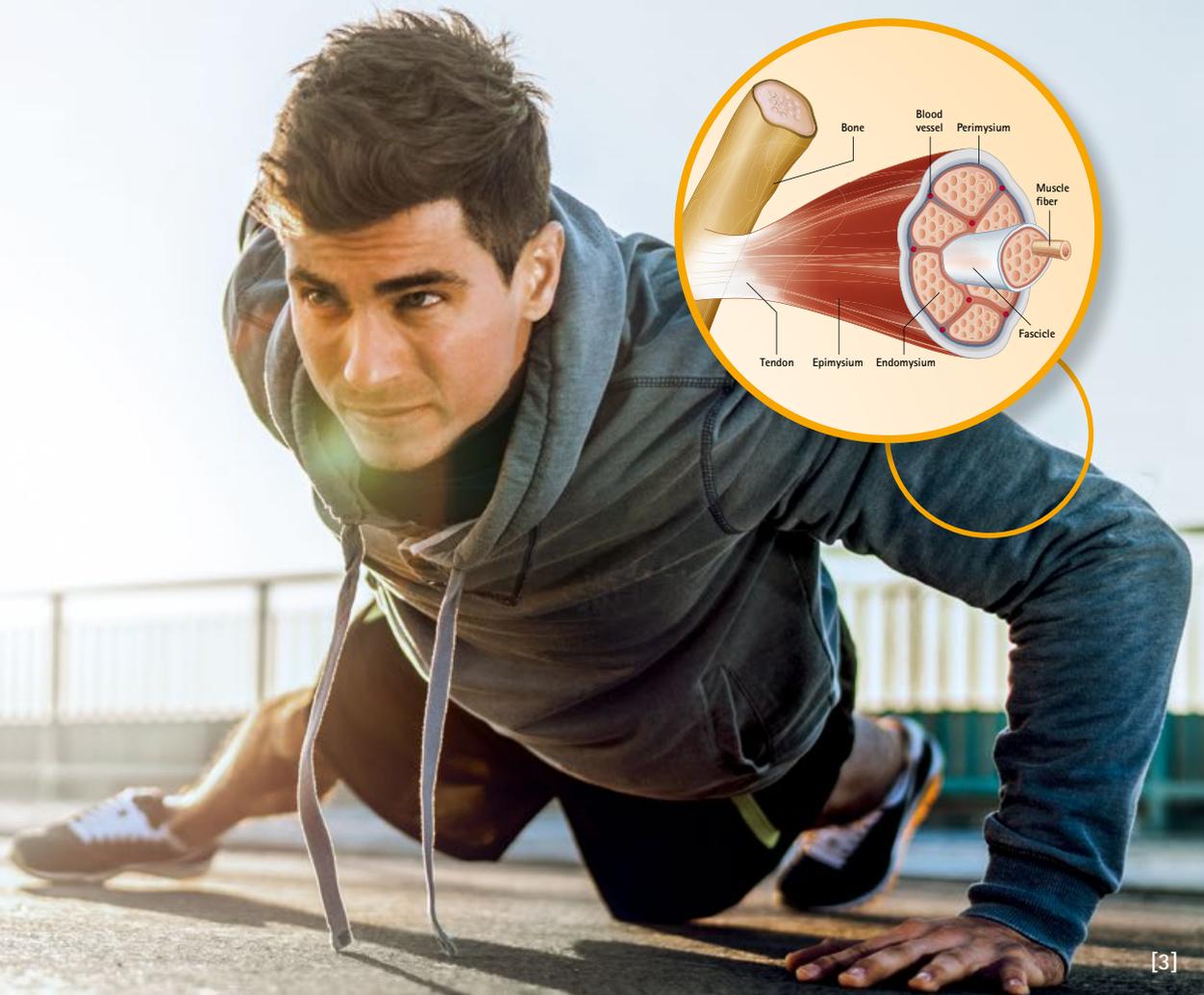


while aging – specifically after moderate age appropriate exercise. Make the most of it by using an optimized, highly bioavailable protein source.

Several randomized, placebo-controlled, double-blind studies have shown the potential of BODYBALANCE®.

**Please contact us for more detailed information.**

- Body toning – increasing lean body mass and decreasing body fat
- Improving muscle-fat-balance and body composition
- Maintaining muscle and strength – for freedom and independence



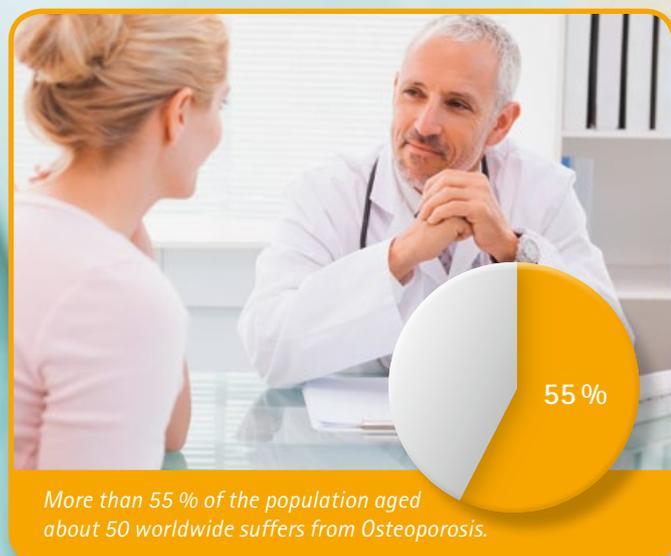
## FORTIBONE® – Healthy aging with strong and stable bones

Bone atrophy, loss of bone density and bone stability is a problem particularly post-menopausal women have to deal with. But not only them. Osteoporosis is a major public health threat for many million citizens over 60-years-old worldwide. To remain strong, bones need more than calcium. Collagen is at least as important to keep the skeletal system healthy.

FORTIBONE®, the specific Bioactive Collagen Peptides® from GELITA stimulates osteoblast to increase production of extracellular bone matrix which is the essential framework for calcium mineralization. In addition, FORTIBONE® regulates degenerative processes by reducing protease production in osteoclasts. FORTIBONE® supplies the body with basic components for a strong and stable bone structure. This mechanism supports overall bone density, stability and exibility.

Pre-clinical and clinical research is already showing the positive effect of FORTIBONE® on the bone structure. Several scientific studies are in process – **for more information, please contact us.**

- Improving bone mass density
- Supporting bone stability and flexibility
- Stimulating bone matrix formation



## FORTIGEL® – Keeps people physically active and mobile

Today, every fourth person suffers from joint problems and the number continues to increase. The principal cause is wear and tear of the joint cartilage brought by age, over exercise and stressed joints.

With FORTIGEL®, GELITA offers an innovative ingredient to support joint health and mobility. Optimized specific collagen peptides of FORTIGEL® have been shown to stimulate cartilage regeneration.

By keeping people physically active and mobile, FORTIGEL® can improve quality of life. More than 15 studies have been conducted proving the effect of FORTIGEL® on joint health improvement. **Please contact us for further information.**

- Stimulating the body's own mechanisms for maintaining healthy joints and mobility
- Improving activity-related joint discomfort

Change in the joint cartilage after 3 months  
(tissue sections)



*Oesser S et al. (2007) Osteoarthritis Cartilage 15: C61-C62, 94, adapted*



**! VERISOL® – Beauty from Within with the natural power of collagen**

Skin properties are known to be affected by endogenous and environmental factors including aging, ultraviolet radiation, hormones and nutrition. These factors along with the natural process of aging cause the skin to lose its firmness, which results in wrinkles and a loss of elasticity. The major structural component of skin is collagen, it represents about 80% of the dry weight of skin.

VERISOL® can stimulate skin metabolism and counteract the loss of collagenous extracellular matrix from the inside. Consumers who ingest VERISOL®, the natural Bioactive Collagen Peptides® specially optimized for beauty applications, can experience noticeably firmer and smoother skin with



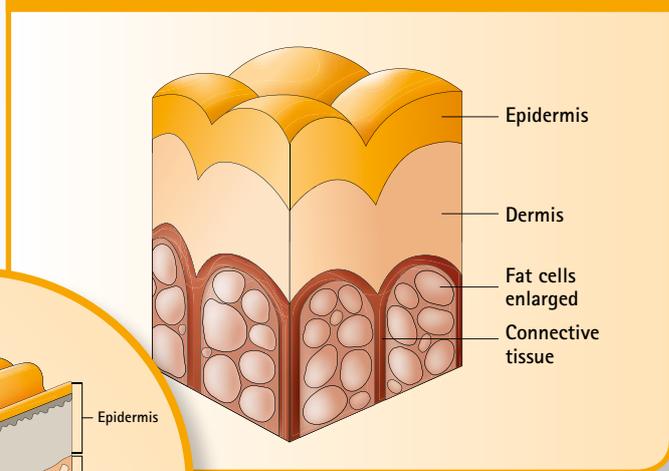
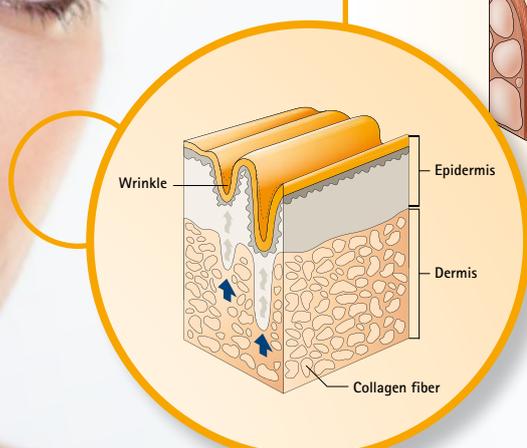
fewer wrinkles. The positive effect of VERISOL® also shows an improved skin surface structure, reduced cellulite and faster nail growth with reportedly less chipping of fingernails.

Several scientific RCT experiments (randomized placebo – controlled trials) investigated the potential of VERISOL®. **For details, please contact us.**

- Higher skin elasticity
- Reducing of wrinkles
- Supporting skin density
- Reducing cellulite
- Improving nail growth and nail structure



VERISOL® increases dermis density



*\* 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*

## TENDOFORTE® – Strengthen ligaments and tendons

Tendons and ligaments deliver a high performance during the span of a human lifetime. Made of collagen fibers, they are the connecting elements between bones respectively between muscles and bones and are crucial for our motion control and mobility. Aging and straining may restrict their functionality and thus increase the risk of injury. In advanced age, Tendopathy, a degenerative disease of tendons and tendon inserts is a comparatively frequent disease, leading to pain and movement restriction.

TENDOFORTE®, the specific Bioactive Collagen Peptides® from GELITA, are designed to increase health and quality of ligaments

and tendons. Research shows that the intake of TENDOFORTE® significantly strengthens tendons and ligaments, especially when combined with physical workout. The risk of injury decreases considerably whereas flexibility improves. Pre-clinical and clinical research is already showing the positive effect of TENDOFORTE® on ligaments and tendons. More scientific studies are in process. **Please contact us for more information.**

- Increasing strength of tendons and ligaments
- Improving mobility
- Reducing risk of injuries



## GELITA® Collagen Peptides – preserve quality of life

- BODYBALANCE® – Increasing lean body mass and decreasing body fat
- FORTIBONE® – Improving bone stability and flexibility
- FORTIGEL® – Supporting mobility and joint health
- VERISOL® – Increasing elasticity, reducing wrinkles of skin, improving skin surface structure, reducing cellulite and promote nail growth
- TENDOFORTE® – Strengthening ligaments and tendons



GELITA  
promotes 

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

# Make innovative product ideas a reality!

GELITA Bioactive Collagen Peptides® can enhance the most diverse applications, including dairy products, functional foods, dietary supplements, coated tablets and beverages.

Gelita excludes any warranty and/or liability for any and all claims arising from or in relation with statements made in this brochure and/or the positioning of Bioactive Collagen Peptides®, including but not limited to claims based on misleading advertising and/or breach of relevant German and EU legislation. The positioning as well as the packaging, labelling and advertising of the client's products with Bioactive Collagen Peptides® falls solely within the responsibility of the client.

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