



matrihealth

# matriVital

*Food-grade Elastin*

-

*Beyond Collagen: The Gold  
Standard of Elasticity*

*Quality. Made in Germany.*



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**2026 - Collagen is standard.**

**What is your upgrade?**

Trend analyses confirm that the market is growing, and so is competition.<sup>1</sup>

But

Meta-analyses show that pure collagen often delivers inconsistent results.<sup>2</sup>

Don't put all your eggs in one basket!

1. *Mintel report 2026*  
2. *Myung et al., Am J Med. 2025*

# Synergy of collagen und elastin



Collagen gives tissue **stability** through its high tensile strength.

Elastin gives tissues **high elasticity** and resilience.

**Stability** and **elasticity** belong together

The **combined intake** shows:

- Synergistic effects of bioactive peptides from both proteins
- Improvement of skin parameters
- Increase in elastin content in the skin
- Protection against UV damage
- Anti-inflammatory effect
- Increase in hyaluronic acid in the skin

This overview is intended solely for general scientific information. It does not constitute health claims, promises of efficacy, or recommendations in the sense of nutrition and health claims about food. The contents do not claim to be complete or accurate with regard to regulatory requirements.

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#### References:

Lu et al., *J Dermatologic Science and Cosmetic technology*, 2024  
Zhang et al., *J Photochemistry & Photobiology*, 2020  
Lei et al., *Cosmetics*, 2025

Shigemura Y et al., *Agric Food Chem.*, 2012  
Sato et al., *Bioscience, Biotechnology, and Biochemistry*, 2012

*matrihealth - Food-grade elastin*



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## Refining with **gold dust**

The **future** is the combination with **elastin**.

We offer you the raw material that will turn your product into a **premium solution**.

*matri***Vital** – the perfect partner for your product.





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## Scalable. Pure. Gold.

Gold is no coincidence. It is proof.  
Our elastin proudly displays its origin:

The high concentration of desmosine and  
isodesmosine provide the color.

These special crosslink amino acids  
guarantee a high protein content and  
genuine natural "elastin."



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Optimized for use in beverages, food, and dietary supplements

- Highest purity
- Cold water soluble
- Allergen-free
- High Protein (1 g  $\geq$  0,9 g protein)
- Universally applicaple

## Identity

<i>Protein content</i>	≥ 90%
<i>Desmosine</i>	≥ 0.5 Gew.-%
<i>Isodesmosine</i>	≥ 0.5 Gew.-%
<i>Elastin content</i>	≥ 90%

## Heavy Metals and Chemical Analysis

<i>Arsenic (As)</i>	≤ 1 mg/kg (ppm)
<i>Cadmium (Cd)</i>	≤ 0.5 mg/kg (ppm)
<i>Chromium (Cr)</i>	≤ 10 mg/kg (ppm)
<i>Copper (Cu)</i>	≤ 30 mg/kg (ppm)
<i>Iron (Fe)</i>	≤ 30 mg/kg (ppm)
<i>Lead (Pb)</i>	≤ 3 mg/kg (ppm)
<i>Mercury (Hg)</i>	≤ 0.1 mg/kg (ppm)
<i>Zinc (Zn)</i>	≤ 50 mg/kg (ppm)
<i>Sulfur dioxide (SO<sub>2</sub>)</i>	≤ 10 mg/kg (ppm)
<i>Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)</i>	≤ 10 mg/kg (ppm)

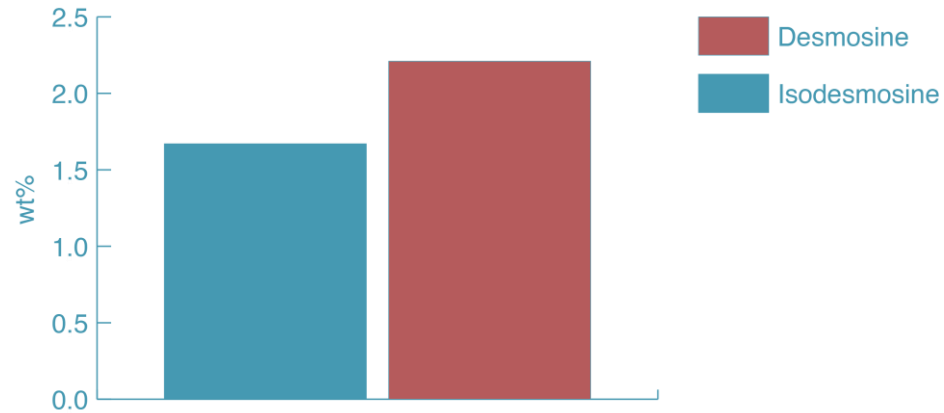
## Microbiological Analysis

<i>Total Aerobic Mesophilic Microorganisms</i>	≤ 100 CFU/g
<i>Anaerobic sulphite-reducing spores</i>	≤ 10 CFU/g
<i>Enterobacteriaceae</i>	≤ 10 CFU/g
<i>Listeria monocytogenes</i>	Absence
<i>Escherichia coli</i>	Absence
<i>Salmonella</i>	Absence

## Physical and Chemical Properties

<i>Apperance</i>	<i>Powder</i>
<i>Color</i>	<i>Yellowish to orange to brownish</i>
<i>Odor</i>	<i>Odorless to faint</i>
<i>Water content</i>	≤ 10 wt%
<i>Active water (a<sub>w</sub>)</i>	< 0.6
<i>Conductivity</i>	< 1 mS/cm
<i>Molecular weight (M<sub>w</sub>)</i>	10-30 kDa
<i>pH</i>	6-8
<i>Clarity of solution</i>	<i>batch-specific</i>

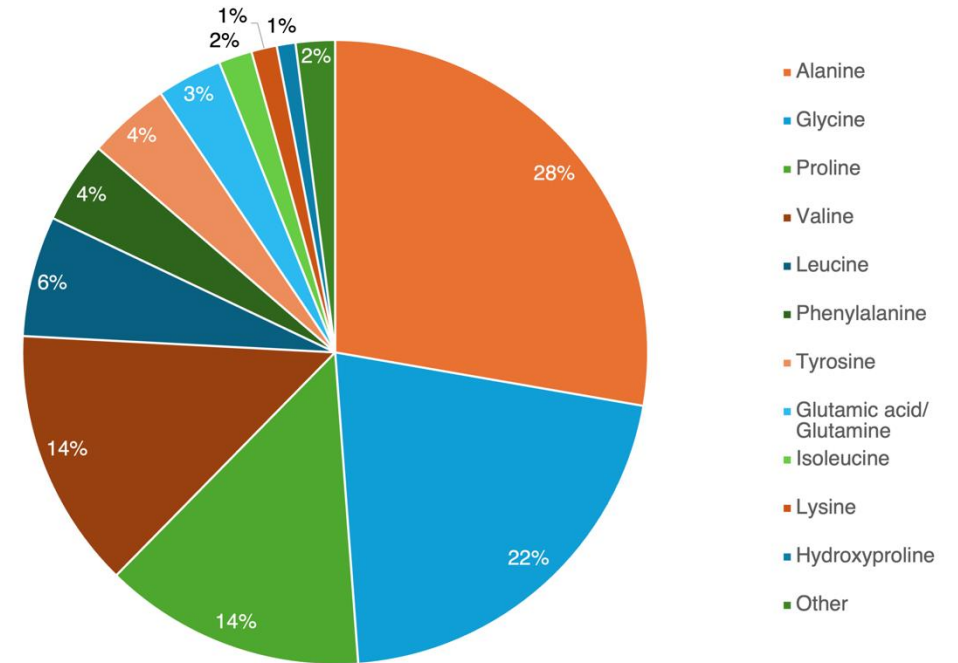
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*matriVital* contains more than 1% isodesmosin and over 2% desmosin. This means it contains two to three times more than conventional elastin.

These cross-linking building blocks (typically 1% in elastin) are crucial for the structural integrity of elastin.

## Amino acid profile



*matriVital* characterized by its unique amino acid profile.

They are rich in alanine, glycine, proline, and hydroxyproline, the main components of elastin.





*matrihealth GmbH specializes in the sustainable industrial isolation and processing of elastin and offers a comprehensive portfolio of high-quality products. With over 20 years of experience in elastin research, the development of isolation strategies, and scalable processing methods, the matrihealth team sets standards in quality assurance, technological innovation, and application-oriented product development. All matrihealth production takes place in Germany and covers the entire elastin production chain – from the careful selection of raw materials to the packaging of high-quality elastin ingredients. This ensures the consistently high quality, safety, and sustainability of our products, which are regularly tested and certified by independent laboratories.*



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