



PRODUCT PROFILE SHEET

Type I collagen peptides are a great source of proteins and are important nutrients for health.

ECollagen® is characterized by a combination of 17 key amino acids derived from sustainable fish skins from *Pangasius*. The amino acid profile is typically high in Hydroxyproline, Proline and Glycine (representing approx. 50% of the amino acids profile)

Table 1

Typical amino acid profile ECollagen®

Amino acids	g/100g	Amino acids	g/100g
Alanine	10,25	Lysine	3,38
Arginine	10,20	Methionine	1,12
Aspartic acid	5,10	Phenylalanine	1,84
Glutamic acid	7,04	Proline	13,35
Glycine	26,84	Serine	3,03
Histidine	0,54	Threonine	2,34
Hydroxyproline	9,21	Tyrosine	0,32
Isoleucine	1,35	Valine	2,54
Leucine	2,94		

Product Advantages

- ✓ **High Quality and Full Traceability**
- ✓ **Single Source**
From *Pangasius hypophthalmus*
- ✓ **Superior Bioavailability**
Low molecular weight (1000-2000 Da)
- ✓ **Low in Sodium**
- ✓ **Free from Fats, Carbohydrates, Sugar and Cholesterol**
- ✓ **ASC Certified for Responsible Farming**
Our ASC certified aquaculture unit controls every aspect of the fish's life cycle
- ✓ **Great Solubility and Sensorial Profile**
Odorless and tasteless
- ✓ **Fully integrated production set-up**
24 hours' conversion fish to collagen
- ✓ **Manufactured under ISO, GMP WHO and full HACCP**
- ✓ **Halal Certified**
- ✓ **Easy to digest**
Due to the low molecular weight

Research

Type I collagen is the most abundant collagen of the human body. It is found in almost all connective tissues and the predominant component of the interstitial membrane. Collagen protein represents 90% of the total organic bone mass.



Representative Image of the ECollagen® Powder

Type I collagen can be found in most supplement types because of its wide range of potential benefits which are not only linked to skin, hair and nails but also to tendons, ligaments, muscle health and healthy aging in general. Collagen type I is the primary component in human skin. With age, there is loss of skin elasticity and collagen, resulting in wrinkle formation and reduction in skin appearance.

Manufacturing Process

ECollagen® is manufactured under ISO, GMP WHO and full HACCP and it is fully integrated from source to final raw material, which allows a manufacturing cycle of 24-hours from fish to final product (marine collagen) offering a high quality ingredients with great sensorial profile.

Sustainability



The ASC standard is a certification for environmentally and socially responsible seafood products. With ECollagen® being ASC certified, we underline our commitment and efforts to work for a more sustainable and fully traceable supply chain.

With ECollagen® we offer complete transparency addressing consumers' growing desire for safety, purity, environmental responsibility and traceability.

In addition, using a raw material from a single source secures consistency and high quality from the start, and consequently, in your final finished product.

If you are interested in having your finished product with the ASC logo on the packaging, please contact your LEHVOSS representative.

Product Dosage

Hydrolysed collagen is one of the most common forms of collagen used in food supplements, with scientific research demonstrating that it is absorbed better than other types. It's often sold in capsules and powder forms but also as a ready to drink sachets and other innovative liquid applications.

A 2019 review of clinical studies found that taking 2.5mg to 15 grams of hydrolysed collagen peptides may contribute to several health benefits¹.

Based on published clinical studies, a daily dose of 2.5 grams may benefit joint health, skin health, and hydration. Increasing this dose to 5 grams per day has shown the potential to improve bone density.

Lastly, larger daily doses of 10 - 15 grams of these peptides have mostly been used to improve muscle mass and body composition.

About



Based on more than 15 years of experience throughout the whole value chain of the industry, LEHVOSS Engredo, now part of LEHVOSS Group, represent and market high quality ingredients in the Nordics.

References

1. Paul et al. "Significant Amounts of Functional Collagen Peptides Can Be Incorporated in the Diet While Maintaining Indispensable Amino Acid Balance". *Nutrients*, 2019 May 15;11(5):1079. Doi: 10.3390/nu11051079.

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