

# Collagen Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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# **Abstracts**

The global collagen market size reached US\$ 9.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 13.8 Billion by 2028, exhibiting a growth rate (CAGR) of 6.61% during 2022-2028. The increasing product utilization in the food and beverage (F&B) industry, growing demand for collagen in cosmetics and personal care products, and extensive research and development (R&D) activities are some of the major factors propelling the market.

Collagen refers to an essential protein that aids in maintaining the structural integrity and strength of various tissues and organs in the human body. It is commercially produced from cattle, fish, pigs, salmon, cod, tilapia, chicken, poultry, and sheep. Collagen is widely used in food products, cosmetics, wound healing, tissue engineering, nutraceuticals, health supplements, textiles, and skin care products. It promotes skin elasticity, reduces the appearance of wrinkles, improves joint mobility, strengthens bones, and supports healthy digestion. Collagen also aids in maintaining healthy blood flow, supporting cardiovascular health, and minimizing the risk of conditions such as atherosclerosis.

The increasing awareness among consumers regarding health and wellness is one of the factors catalyzing the market growth. Collagen is widely consumed to provide support to structural muscles and strengthen skin, bones, tendons, ligaments, cartilage, and blood vessels. In addition, the growing product utilization in health supplements and nutraceuticals owing to the increasing consumer participation in sports and allied activities is favoring the market growth. Furthermore, the rising product adoption in the pet care industry to improve the joint health, mobility, and overall well-being of dogs, cats, and other animals is supporting the market growth. Apart from this, the growing demand for natural and sustainable ingredients that offer better health benefits



compared to synthetic alternatives is contributing to the market growth. Other factors, including rising geriatric population, widespread product availability across online retail stores, the increasing prevalence of lifestyle diseases, and the growing demand for natural and sustainable ingredients, are anticipated to drive the market growth.

Collagen Market Trends/Drivers:

The increasing product utilization in the food and beverage industry

Collagen finds numerous applications in the food and beverage (F&B) industry, as it is a rich source of protein, making it ideal for producing protein bars, beverages, and powders to boost energy levels. Furthermore, the widespread product utilization to enhance the texture and mouthfeel of yogurts, ice creams, sausages, creams, and processed meat is providing an impetus to the market growth. Apart from this, the increasing product application as an emulsifier and stabilizer in dressings, sauces, soups, beverages, and mayonnaise is contributing to the market growth. Moreover, the growing product utilization in mousses, desserts, and whipped toppings, owing to its foaming properties that contribute to the light and airy texture, is favoring the market growth.

The growing demand for collagen in cosmetics and personal care products

Collagen is widely used in anti-aging products, such as creams, serums, and masks, to promote a youthful and rejuvenated appearance by providing hydration and supporting the skin's natural collagen production. Moreover, it acts as a moisturizer in various personal care products to keep skin hydrated, soft, and supple. Apart from this, collagen is used in lip care products, such as lip masks and lip balms, to improve the texture and condition of the lips, reduce dryness, and promote a smoother appearance. Furthermore, the growing product adoption in various hair care products, such as conditioners, shampoos, and treatments to help nourish and repair damaged hair, enhance shine, and promote thicker and healthier-looking strands, is positively influencing the market growth.

Extensive research and development (R&D) activities

The introduction of marine collagen peptides that possess smaller molecular weight and enhanced bioactivity compared to traditional collagen forms is providing an impetus to the market growth. Furthermore, the recent development of microbial fermentation techniques to produce collagen, which offers better yield and improves the scalability,



sustainability, and efficiency of the production process, is supporting the market growth. Additionally, the development of advanced drug delivery systems, such as Encapsulation technologies, nanoemulsions, and liposomal delivery systems, which enhance the stability, bioavailability, and targeted delivery of collagen and its associated bioactive compounds, is positively influencing the market growth. Apart from this, the utilization of the high-pressure processing (HPP) technique to extract collagen from animal sources while preserving its native structure and functionality is favoring the market growth.

#### Collagen Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global collagen market report, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on source, product, and application.

Breakup	by	Source:
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Bovine

Porcine

**Poultry** 

Marine

Others

Bovine dominates the collagen market

The report has provided a detailed breakup and analysis of the collagen market based on the source. This includes bovine, porcine, poultry, marine, and others. According to the report, bovine represented the largest market segment.

Bovine is dominating the collagen market owing to its abundant availability, which ensures a stable and consistent supply for manufacturers. Furthermore, bovine collagen offers a high degree of structural similarity with its human counterpart, thus making it a suitable choice for various applications, including food processing, skincare, and hair care. Apart from this, collagen sourced from bovine is highly cost-effective, which contributes to its large-scale production and applications across various industries. Moreover, the increasing demand for collagen sourced from bovines as it exhibits excellent compatibility with different formulation processes.

#### Breakup by Product:



Gelatin
Hydrolyzed Collagen
Native Collagen
Synthetic Collagen
Others

Gelatin dominates the collagen market

The report has provided a detailed breakup and analysis of the collagen market based on the product. This includes gelatin, hydrolyzed collagen, native collagen, synthetic collagen, and others. According to the report, gelatin represented the largest market segment.

Gelatin is dominating the collagen market owing to its widespread applications in the food and beverage (F&B) industry as a gelling, stabilizing, and texturizing agent. Moreover, it possesses unique functional properties, such as high water-holding capacity and film-forming properties, which aid in retaining moisture, extending product shelf-life, and enhancing texture. Furthermore, its widespread availability due to the presence of a well-established supply chain and distribution network is acting as another growth-inducing factor. Additionally, gelatin has a long history of consumption and a well-documented safety profile, which further contributes to its market growth.

#### Breakup by Application:

Food and Beverages

Functional Food

Functional Beverages

**Dietary Supplements** 

Confectionary

**Desserts** 

**Meat Processing** 

Healthcare

Bone and Joint Health Supplements

Wound Dressing

Tissue Regeneration

Medical Implants

Cardiology

**Drug Delivery** 



Cosmetics
Beauty Supplements (Nutricosmetics)
Topical Cosmetic Products
Others

Healthcare dominates the collagen market

The report has provided a detailed breakup and analysis of the collagen market based on the application. This includes food and beverages (functional food, functional beverages, dietary supplements, confectionary, desserts, and meat processing), healthcare (bone and joint health supplements, wound dressing, tissue regeneration, medical implants, cardiology, and drug delivery), cosmetics (beauty supplements (nutricosmetics) and topical cosmetic products) and others. According to the report, healthcare represented the largest market segment.

Collagen finds numerous applications in the healthcare industry owing to its excellent biocompatibility. It is widely used as a biomaterial in medical devices, tissue engineering, and regenerative medicine, as it can be easily processed into scaffolds, films, and matrices to support cell growth, tissue repair, and wound healing. Furthermore, collagen is widely used in orthopedic applications, such as bone graft substitutes, cartilage repair, and joint reconstruction, as it shares similarities with natural tissues. Apart from this, collagen-based materials support tissue regeneration in the oral cavity, which further helps in bone and gum healing. In addition, it acts as a carrier for the controlled release of drugs and bioactive molecules, owing to its biodegradability and biocompatibility.

#### Breakup by Region:

North America

**United States** 

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others



Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Europe exhibits a clear dominance in the market, accounting for the largest collagen market share

The report has also provided a comprehensive analysis of all the major regional markets, which includes North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe represented the largest market segment.

Europe is dominating the collagen market due to the presence of a robust network of established collagen manufacturers, suppliers, and research institutions. Furthermore, the implementation of strict regulations by several regional governments to ensure the safety, efficacy, and quality of collagen products is favoring the market growth. Moreover, the growing demand for natural and clean-label products among the regional population due to rising health consciousness among consumers is providing an impetus to the market growth. Furthermore, the widespread adoption of collagen-based products in wound care, tissue engineering, regenerative medicine, and medical devices in the region is contributing to market growth. Additionally, the presence of a well-established trade and export infrastructure, which allows European manufacturers to cater to domestic and global demand, is facilitating the market growth.

# Competitive Landscape:

Leading companies in the collagen market are investing in developing new and innovative products to expand their portfolio and cater to increase consumer demands.



Furthermore, several key players are engaged in strategic partnerships with distributors, retailers, and industrial stakeholders to tap into new markets and strengthen their existing foothold. Moreover, the increasing marketing and branding efforts by manufacturers through digital marketing channels, social media, influencer partnerships, and collaborations with healthcare professionals to create awareness about the benefits of collagen and educate consumers about their product offerings are supporting the market growth. Additionally, several top companies are leveraging online retail platforms to ensure the availability and visibility of their products across various regions.

The report has provided a comprehensive analysis of the competitive landscape in the global collagen market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Advanced BioMatrix Inc.

Collagen Solutions Plc (Rosen's Diversified Inc.)

Connoils LLC

Croda International Plc

Gelita AG

Gelnex

ITALGELATINE S.p.A.

Koninklijke DSM N.V.

Lapi Gelatine S.p.a.

Nippi Collagen NA Inc. (Nippi Inc)

Nitta Gelatin NA Inc.

Rousselot (Darling Ingredients)

Tessenderlo Group.

#### Recent Developments:

In April 2023, Gelita AG launched a fast-setting gelatin called CONFIXX that allows for the starch-free production of gummies with a sensory profile that has previously only been attainable with a starch-based manufacturing process. CONFIXX will make the production of gelatin-based gummies possible with virtually any active ingredients, including collagen peptides, melatonin, vitamins, and minerals.

In April 2023, Gelnex was acquired by Darling Ingredients Inc., a leading company that turns food waste into sustainable products. This acquisition was aimed at increasing the Darling's production capacity of collagen to meet rising global demand.

In April 2022, Lapi Gelatine S.p.a announced that it had obtained the Aquaculture Stewardship Council (ASC) certification for its fish gelatin and collagen products.



# Key Questions Answered in This Report

- 1. What was the size of the global collagen market in 2022?
- 2. What is the expected growth rate of the global collagen market during 2023-2028?
- 3. What are the key factors driving the global collagen market?
- 4. What has been the impact of COVID-19 on the global collagen market?
- 5. What is the breakup of the global collagen market based on the source?
- 6. What is the breakup of the global collagen market based on the product?
- 7. What is the breakup of the global collagen market based on the application?
- 8. What are the key regions in the global collagen market?
- 9. Who are the key players/companies in the global collagen market?



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