

Collagen Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product (Gelatin, Hydrolyzed Collagen, Native Collagen, Synthetic Collagen, Others), By Source (Bovine, Porcine, Poultry, Marine, Others), By Application (Food and Beverages, Healthcare, Cosmetics, Others), By Region and Competition

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Abstracts

The Global Collagen Market achieved a valuation of USD 8.51 billion in 2022, and it is poised for robust growth in the forecast period, with a projected Compound Annual Growth Rate (CAGR) of 4.21% through 2028 and is expected to reach at USD 10.78 billion by 2028. This growth is primarily driven by the increasing adoption of collagen across various industries, particularly due to the rising interest in consuming nutritious products. Collagen, a fibrous protein derived from the extracellular matrix in the body, has gained significant popularity, especially in the healthcare sector. The demand for collagen-based products, coupled with advancements in materials and technology, serves as a major driver of market growth during the forecast period.

Notably, the use of collagen in food products has also contributed to its rapid market expansion. This protein, primarily insoluble in nature, is synthesized using glycerine, arginine, and amino acids. Its beneficial effects are observed in promoting brain cell health, maintaining bone tissue integrity, and preventing bone loss. Collagen also plays a crucial role in enhancing the quality of keratin-containing body parts, such as hair and nails.

Furthermore, collagen supports the elasticity and strength of skin tissue cells, contributing to overall skin quality. However, it's important to note that certain religious

practices may prohibit the use of animal-sourced products, which could pose a potential barrier to market growth. Additionally, inadequate processing technologies, particularly in developing countries, present a challenge for the market. Addressing these challenges and further exploring the potential applications and benefits of collagen will be crucial for its sustained growth in the forecast period.

Key Market Drivers

Growing Demand for Collagen in the Cosmetic Industry

Collagen, a vital component responsible for maintaining skin firmness, suppleness, and youthfulness, plays a crucial role in skincare. As natural collagen production diminishes with age, the cosmetic industry has harnessed its potential in various skincare and beauty products to combat signs of aging. Collagen's ability to restore moisture and elasticity makes it an ideal ingredient in anti-aging skincare products. By replenishing collagen levels in the skin, these products reduce wrinkles, fine lines, and improve skin texture, promoting a youthful complexion. Collagen also exhibits exceptional hydrating properties, enhancing moisture retention and imparting a radiant appearance to the skin. Additionally, it boosts skin elasticity, reducing sagging and promoting a rejuvenated appearance.

The growing awareness among consumers about skincare ingredients and their benefits has driven the demand for collagen-based cosmetics. People seek products containing collagen to promote healthy and youthful skin actively. This increasing awareness and preference for collagen have become major drivers behind the thriving global collagen market.

Growing Demand for Collagen in the Food and Beverage Industry

Collagen, known for its role in skin, hair, nails, and joints, has gained attention for its health benefits when incorporated into diets. This has led to the inclusion of collagen in a wide range of food and beverage products. Collagen contains amino acids like proline and glycine, crucial for joint and connective tissue health. Consuming collagen-rich foods or beverages can aid joint flexibility and alleviate joint pain, particularly in conditions like osteoarthritis.

Collagen is also an ideal protein source, with amino acids essential for muscle growth and repair. Athletes and fitness enthusiasts are integrating collagen supplements and collagen-infused protein products into their diets for post-workout recovery and muscle

maintenance. Collagen supports digestive health by promoting gut lining integrity and repairing damaged intestinal walls, leading to a surge in collagen-infused food and beverage products targeting digestive wellness.

As consumers prioritize clean label and natural ingredients, collagen aligns with this trend. Manufacturers offer collagen products derived from sustainable sources, appealing to eco-conscious consumers who seek wellness and environmental consciousness in their choices.

Surge in Global Geriatric Population

The world is witnessing a significant demographic shift, with a growing geriatric population. This demographic change has far-reaching impacts, including on the collagen market. By 2050, it's projected that approximately 22% of the global population will be aged 60 years and above. This aging population seeks solutions to maintain their health and well-being, making collagen a crucial ingredient in products tailored to their specific needs.

Collagen-based products, including supplements, functional foods, and beverages, have gained popularity among seniors seeking to promote healthy aging. Collagen supports joint health, making it suitable for individuals looking to maintain mobility and alleviate joint-related issues. Its inclusion in joint health supplements has gained significant traction.

In conclusion, the aging population's focus on health and wellness drives the demand for collagen-based products, contributing to the growth of the collagen market.

Key Market Challenges

Lack of Sourcing and Sustainability

Climate uncertainties, such as overfishing, habitat destruction, and pollution, pose significant challenges to responsible sourcing practices within the collagen industry. These factors can lead to resource depletion, loss of biodiversity, and disrupt marine ecosystems. Efforts must be made to ensure sustainable fishing practices and minimize the environmental impact associated with collagen sourcing.

Furthermore, the collagen industry faces challenges related to the lack of standardized practices and regulations for responsible sourcing. Implementing global standards and

certifications can help address this issue, providing transparency and assurance to consumers. Collagen manufacturers must prioritize fair trade, safe working conditions, and the protection of workers' rights, ensuring social responsibility throughout the supply chain.

In summary, achieving responsible sourcing practices is crucial for the collagen industry. By prioritizing environmental sustainability, standardized guidelines, and social responsibility, the industry can thrive sustainably.

Key Market Trends

Advancements in Extraction and Purification Technologies

Technological advancements have revolutionized collagen extraction, optimizing yield and preserving collagen's functional properties. These cutting-edge methods enhance efficiency and minimize waste, improving resource utilization. Modern technologies also maintain collagen's triple-helix structure and bioactive properties during extraction, enhancing its potential in various applications.

In the purification process, filtration and separation advancements remove impurities, resulting in high-quality collagen suitable for pharmaceutical, cosmetic, and food industries. These technologies enable rigorous quality control, standardization, and customization, laying the foundation for a thriving collagen market.

Segmental Insights

Product Category

The gelatin segment dominated the global collagen market in 2022, driven by demand from the food and beverage industry. Gelatin collagen finds applications in bakery items, dietary supplements, sports nutrition, and more, contributing to its growth. Hydrolyzed collagen is also expected to grow due to its benefits for hair, skin, nails, joint health, and muscle growth.

Source

Bovine collagen is projected to experience rapid growth due to its availability and lower price. Porcine collagen, with its similarity to human collagen, finds applications in skin tissue engineering, cosmetic products, and musculoskeletal pain treatment.

Regional Insights

Asia Pacific led the global collagen market in 2022, driven by developments in India and China. Australia's ovine collagen industry contributes significantly to the regional market. The region also experiences a surge in demand for collagen-based surgical applications.

Key Market Players

Collagen Matrix, Inc.

Collagen Solutions Plc

Tessengerlo Group

GELITA AG

Weishardt Holding SA

ConnOils LLC

Advanced BioMatrix, Inc.

Nitta Gelatin, NA Inc.

Junc? Gelatines SL

Symatense SASU

Report Scope:

In this report, the Global Collagen Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Collagen Market, By Product:

Gelatin

Hydrolyzed Collagen

Native Collagen

Synthetic Collagen

Others

Collagen Market, By Source:

Bovine

Porcine

Poultry

Marine

Others

Collagen Market, By Application:

Food and Beverages

Healthcare

Cosmetics

Others

Collagen Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Collagen Market.

Available Customizations:

Global Collagen Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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