

Collagen Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025-2034

<https://marketpublishers.com/r/C572EF612D65EN.html>

Date: February 2025

Pages: 220

Price: US\$ 4,850.00 (Single User License)

ID: C572EF612D65EN

Abstracts

The Global Collagen Market was valued at USD 4.9 billion in 2024 and is projected to expand at a 5.8% CAGR from 2025 to 2034. Market growth is driven by increasing demand for collagen-based supplements and their rising incorporation in food and beverages. Collagen supplements, available in powders, pills, and functional foods, are gaining popularity due to their high absorption rates. The human body produces collagen, a vital protein for skin, bones, joints, and muscles, but its production declines with age, leading to issues like wrinkles and joint discomfort.

Supplementing with collagen has been found to improve skin hydration and elasticity, reducing visible signs of aging. With the global aging population rising, demand for health and wellness supplements, including collagen, is expected to grow significantly. Consumers are increasingly focused on personal health, appearance, and preventive care, further fueling the market. Additionally, collagen is widely used in the food and beverage sector to enhance texture, elasticity, and stability in various products. However, challenges remain, particularly regarding the taste and aroma of marine collagen, which require masking techniques when used in formulations.

In 2024, the collagen market was segmented by product into gelatin and peptides. The peptide segment accounted for 54.9% of the total market due to its superior absorption and digestion. Peptide collagen, which undergoes extensive hydrolysis to break down into smaller particles, is widely used in dietary supplements for benefits related to skin, gut, and joint health. Gelatin, which is only partially hydrolyzed, is primarily utilized in food products like desserts and jellies to provide texture and structure.

Based on sources, collagen is classified into bovine, porcine, marine, and other categories. The bovine segment led the market with a 35% share in 2024, attributed to

its abundant availability and associated health benefits, including arthritis relief, bone health, and skin improvement. Bovine collagen supports type I and III collagen production, essential for skin elasticity and moisture retention. Porcine collagen, growing at a 5.9% CAGR, ranks as the second-largest source due to its affordability and compatibility with human biology. It is widely used in cosmetics, food, and biomedical applications.

In terms of dosage form, the market was dominated by collagen powder in 2024, holding a 43.8% share. Manufacturers are actively promoting collagen powders and shakes, as they easily dissolve in liquids and allow flexible consumption. These powders can also be customized based on personal preferences, making them a preferred choice among consumers.

By application, the market is segmented into food, healthcare, nutraceuticals, personal care and cosmetics, and others. The nutraceutical segment accounted for 41% of the market, driven by collagen's role in supporting skin health, cell regeneration, and structural integrity. Collagen is widely used in supplements due to its ability to enhance skin appearance, maintain organ protection, and improve elasticity.

The U.S. collagen market was valued at USD 1.3 billion in 2024 and is expected to grow steadily in the coming years. In 2021, collagen held the largest market size as an ingredient in the U.S., with 90.4 tons consumed, surpassing all other countries. The country's high demand stems from its aging population, with 57.8 million people aged 65 or older in 2022, making up 17.3% of the total population. With the elderly population increasing, collagen demand in medical applications and joint health is anticipated to remain strong in the forecast period.

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