

# **Peptone Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Animal Peptone, Plant Peptone, Microbial Peptone, Others), by Application (Pharmaceutical, Research Institutions, Food Industry, Industrial Applications, Others), by region, and Competition**

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## **Abstracts**

Global Peptone Market has valued at USD 150.60 million in 2022 and is anticipated to witness an impressive growth in the forecast period with a CAGR of 3.90% through 2028. Peptone is a complex mixture of partially digested proteins or peptides that is often used as a nutrient source in microbiological and biotechnological applications. It is typically produced by enzymatic or acid hydrolysis of natural protein sources, such as animal tissues, milk, or plant proteins. The resulting peptone contains a wide range of peptides, amino acids, and other nitrogen-containing compounds. Peptone is composed of peptides of varying lengths, amino acids, vitamins, minerals, and other organic and inorganic compounds. Its composition can vary depending on the source and production method. Peptone serves as a rich source of nutrients, particularly nitrogen, for microorganisms such as bacteria, yeast, and fungi. It provides the essential amino acids and other compounds needed for cell growth and metabolism. Peptone is an essential component in research and development activities across various scientific disciplines. It is used in laboratories for experiments, growth of cell cultures, and testing microbial responses to different conditions.

The biopharmaceutical industry's continuous expansion, driven by the development of biologics, monoclonal antibodies, vaccines, and cell and gene therapies, has significantly increased the demand for peptones. Peptones are essential components in cell culture media used for biopharmaceutical production. Concerns about animal-

derived ingredients, such as fetal bovine serum, in cell culture media have led to a shift towards animal-free and plant-based media components. This trend has driven the demand for microbial peptones as alternatives. Increasing awareness of sustainability and ethical concerns related to animal-derived ingredients has prompted the adoption of more sustainable and eco-friendly alternatives, such as microbial peptones. Advances in fermentation technology and bioprocessing techniques have led to increased efficiency in peptone production, contributing to market growth.

## Key Market Drivers

### Growth in Biopharmaceutical Industry

Biopharmaceuticals, including monoclonal antibodies, vaccines, and cell and gene therapies, are produced using living cells in bioreactors. To support the growth and maintenance of these cells, specialized culture media are required. Peptones are valuable components of these culture media as they provide essential nutrients like amino acids, vitamins, and carbohydrates. The biopharmaceutical industry has been experiencing rapid growth in recent years due to the development of novel biologics and the need for more vaccines, especially during pandemics. As production volumes increase, so does the demand for peptones to support larger-scale cell culture processes. The development of advanced therapies such as gene and cell therapies require precise control over cell culture conditions. Peptones play a crucial role in providing the necessary nutrients for cell growth and protein expression in these therapies. Biopharmaceutical companies continuously seek ways to optimize their bioprocessing operations to increase efficiency and reduce costs. Peptones are often a focus of optimization efforts to improve cell culture performance. Each biopharmaceutical product may require a unique cell culture medium. Peptones can be customized and tailored to specific cell lines and processes, making them adaptable to the diverse needs of the biopharmaceutical industry.

The biopharmaceutical industry is subject to strict quality and regulatory standards to ensure product safety and efficacy. Peptone manufacturers invest in quality control and assurance measures to meet these standards, making Peptone a reliable choice for the industry. As biopharmaceutical production expands globally, emerging markets in regions like Asia-Pacific are investing in bioprocessing capabilities. This expansion drives the demand for peptones in these regions. Biopharmaceutical research and development efforts require high-quality reagents and culture media, including peptones, to support the development of new therapies and drug candidates. The COVID-19 pandemic highlighted the importance of vaccines and biopharmaceuticals.

This has led to increased investments in the biopharmaceutical industry and, consequently, the demand for peptones for vaccine production. This factor will help in the development of the Global Peptone Market.

### Shifting Toward Animal-Free Media

Concerns about animal welfare and the ethical treatment of animals have prompted industries to seek alternative ingredients that do not rely on animal-derived sources. As a result, there is a growing demand for plant-based and microbial-derived components like peptones. Animal-derived ingredients, such as fetal bovine serum (FBS), can introduce contaminants and variability into cell culture processes. Animal-free media, which include animal-free peptones, offer a reduced risk of introducing adventitious agents or pathogens into biopharmaceutical production. Regulatory agencies in the biopharmaceutical industry increasingly favor animal-free and defined media components to ensure product safety and consistency. Using animal-free peptones aligns with these regulatory preferences and standards. Animal-free peptones can be manufactured with greater consistency and control over their composition compared to some animal-derived counterparts. This enhances the reproducibility of cell culture and fermentation processes, which is crucial in biopharmaceutical manufacturing. Animal-derived peptones can exhibit batch-to-batch variability due to differences in the source material (e.g., serum from different animals). Animal-free peptones provide more predictable and consistent results, facilitating process optimization. Animal-free peptones, including microbial peptones, can be customized to meet specific cell culture requirements, allowing for greater adaptability to different cell lines and processes.

The scalability of microbial fermentation processes, which produce microbial peptones, makes them well-suited for large-scale biopharmaceutical manufacturing, ensuring a stable supply of consistent media components. The adoption of animal-free media, including peptones, enables companies to access a global market that may have restrictions or concerns about animal-derived ingredients. Research efforts in the biopharmaceutical and biotechnology sectors often require media that can support cell lines in a controlled and standardized manner. Animal-free peptones offer reliable options for such R&D activities. As sustainability becomes a priority, industries are increasingly seeking greener and more sustainable alternatives. Microbial-derived peptones align with sustainability goals, as they have a lower environmental impact compared to animal-derived ingredients. This factor will pace up the demand of the Global Peptone Market.

### Technological Advancements

Fermentation is a key process in peptone production. Technological advancements in bioreactor design, control systems, and fermentation optimization have increased the efficiency of microbial peptone production. This has led to higher yields and improved product consistency. Biotechnology techniques, including genetic engineering, have been used to develop microbial strains that are more productive and efficient in producing peptones. These strains can yield higher quantities of desired peptone components. Advances in analytical techniques, such as mass spectrometry and liquid chromatography, have enabled more precise characterization of peptone products. This helps manufacturers ensure product quality and consistency. Modern technology allows for the customization of peptones to meet specific customer requirements. This includes tailoring peptones for use in different cell culture systems, bioprocessing conditions, and research applications. Research into alternative raw materials for peptone production, such as plant-based sources or agricultural waste products, has advanced. These sources can be more sustainable and cost-effective.

Automation and advanced quality control methods are used to monitor and maintain the quality of peptone products throughout the manufacturing process. This ensures that peptones meet stringent regulatory and industry standards. Technology has enabled the scaling up of peptone production to meet the demands of large-scale biopharmaceutical and biotechnology processes. This ensures a stable supply of peptones for industrial applications. Improved filtration and purification methods have been developed to remove impurities and endotoxins from peptone products, making them suitable for highly regulated industries like biopharmaceuticals. Automation and advanced process control systems in peptone manufacturing facilities enhance the efficiency of production, reduce human error, and ensure consistent product quality. Advanced supply chain management technologies have improved the tracking and distribution of peptone products, helping meet customer demands efficiently and reliably. Technologies for ensuring product safety, such as the use of Limulus amoebocyte lysate (LAL) tests for endotoxin levels, have become standard in peptone manufacturing to meet the quality requirements of the biopharmaceutical industry. Technology-driven sustainability efforts have led to the development of greener and more eco-friendly production methods for peptones, reducing their environmental impact. This factor will accelerate the demand of the Global Peptone Market.

## Key Market Challenges

## Raw Material Sourcing

Traditional peptone production often relies on animal-derived raw materials, such as meat or casein from milk. Sourcing consistent and high-quality animal-derived raw materials can be challenging due to factors like seasonality, geographical variations, and animal health concerns. Increasing concerns about animal welfare and sustainability have prompted a shift towards alternative, non-animal sources for peptone production. However, identifying suitable and sustainable alternatives can pose challenges. Global supply chains are vulnerable to disruptions caused by factors like pandemics, trade disputes, and natural disasters. Raw material shortages or delays can impact peptone production and availability. Ensuring the quality and consistency of raw materials is essential, especially in industries like biopharmaceuticals where product consistency is critical. Variability in raw materials can affect the performance of peptones in cell culture media. Meeting regulatory requirements often involves detailed traceability of raw materials. Ensuring compliance with regulatory standards can be challenging, particularly for raw materials with complex supply chains. Finding and developing alternative, sustainable sources of raw materials, such as plant-based or microbial sources, can be a time-consuming process that requires research and investment. The cost of raw materials can impact the pricing of peptone products. Fluctuations in raw material prices can affect the competitiveness of peptones in the market. Different regions and countries may have varying regulations and standards related to the sourcing of raw materials. Peptone manufacturers must navigate these regulatory differences when sourcing materials globally.

### Competition from Substitutes

Various alternative nutrient sources are available, including soy-based extracts, yeast extracts, and synthetic nutrient formulations. These substitutes may offer comparable or even improved performance in specific applications, challenging the dominance of peptones. Some substitute products may be more cost-effective than peptones, making them attractive options for companies seeking to reduce production expenses. Cost considerations can influence the choice of nutrient sources in bioprocessing. Substitutes are continually being developed to provide better performance in specific applications. Companies may choose substitutes if they offer superior results in terms of cell growth, productivity, or final product quality. Nutrient sources can be tailored to specific cell culture systems and bioprocessing conditions. Substitutes may offer greater flexibility and customization options, making them attractive for companies with unique requirements. Many substitutes are well-established and have received regulatory approval for use in various applications. Achieving regulatory approval for peptone alternatives can be a lengthy and costly process, which can limit their adoption. In the food and beverage industry, changing consumer preferences for plant-based and



natural ingredients have driven the development of substitute products. This can impact the demand for peptones in food applications. Ongoing research and innovation efforts aim to develop advanced substitute products with improved characteristics, further intensifying competition in the market. Educational efforts and awareness campaigns about the benefits of substitute nutrient sources can influence industry decisions, potentially leading to increased adoption.

## Key Market Trends

### Rising Demand for Nutrient-rich Supplements

Increasing awareness of health and wellness among consumers has led to a higher demand for dietary supplements that provide essential nutrients. Peptones, being rich in amino acids and other nutrients, are used in the formulation of supplements to support overall health. The sports and fitness nutrition sector has experienced significant growth, with athletes and fitness enthusiasts seeking protein-rich supplements to support muscle growth and recovery. Peptones, due to their protein content, are incorporated into sports nutrition products. Food and beverage manufacturers are fortifying their products with essential nutrients to meet consumer demands for healthier options. Peptones can be used to enhance the nutritional profile of products, including beverages, snacks, and meal replacements. As the global population ages, there is a greater emphasis on maintaining health and vitality in later years. Nutrient-rich supplements, often containing peptones, are marketed to older adults to support their nutritional needs. Peptones can serve as carriers for vitamins and minerals, allowing for the creation of multivitamin supplements and dietary products designed to address specific nutritional deficiencies. The concept of functional foods, which provide health benefits beyond basic nutrition, has gained popularity. Peptones can be incorporated into functional foods to enhance their health-promoting properties. Some dietary supplements, including weight management products, contain peptones due to their role in satiety and support for weight loss or maintenance. Peptones are used in supplements aimed at promoting digestive health. They can provide essential amino acids and proteins that support gut health. Nutrient-rich supplements with immune-boosting properties have gained attention, especially in response to health concerns like the COVID-19 pandemic. Peptones can be part of formulations aimed at supporting immune function. Peptones are used in the formulation of cosmetic and nutricosmetic products that claim to improve skin health, hair growth, and overall appearance.

## Segmental Insights

## Type Insights

In 2022, the Global Peptone Market largest share was held by Microbial Peptone segment and is predicted to continue expanding over the coming years. Microbial peptones are produced through controlled fermentation processes, which allow for precise control over their composition. This results in consistent and well-defined peptone products, which are highly desirable for applications in industries such as biopharmaceuticals and microbiology. Microbial peptones are seen as a more ethical and sustainable alternative to animal-derived peptones. As concerns about animal welfare and sustainability grow, many industries are shifting towards microbial and plant-based alternatives. Microbial peptones align with these concerns. Ongoing advancements in fermentation technology have improved the cost-effectiveness of producing microbial peptones. This has made them more competitive in the market. The biotechnology and pharmaceutical industries, major consumers of peptones, have been experiencing significant growth. The demand for high-quality, consistent microbial peptones to support cell culture and bioprocessing has followed suit.

## Application Insights

In 2022, the Global Peptone Market largest share was held by pharmaceutical segment in the forecast period and is predicted to continue expanding over the coming years. Peptones are widely used in the pharmaceutical industry, especially in biopharmaceutical production. They serve as essential nutrients in cell culture media, providing the necessary amino acids, vitamins, and carbohydrates to support the growth of cells used in the production of biopharmaceuticals such as monoclonal antibodies, vaccines, and recombinant proteins. The pharmaceutical industry has been experiencing a growing demand for biologics, which are complex drugs derived from living organisms. Biologics often require mammalian cell cultures, where peptones play a crucial role in optimizing cell growth and protein expression. Peptones are utilized in the production of vaccines, including both traditional and new vaccine technologies. The pharmaceutical sector has seen a surge in vaccine development and production, driven by global health concerns and pandemic preparedness efforts. The pharmaceutical industry operates under strict regulatory standards to ensure product safety and efficacy. Peptones used in pharmaceutical applications must meet these high-quality standards, making them a preferred choice for cell culture media.

## Regional Insights

The North America region dominates the Global Peptone Market in 2022. North

America, particularly the United States, is home to a robust biotechnology and pharmaceutical industry. Peptones are widely used in these industries for cell culture and fermentation processes to produce biopharmaceuticals, vaccines, and other products. The substantial demand from these sectors contributes significantly to the Peptone market's growth in the region. North America is a hub for research and innovation in various scientific fields, including biotechnology. Ongoing research efforts drive the development and adoption of new and improved peptone products, further stimulating market growth. The region benefits from access to cutting-edge technologies and expertise in bioprocess engineering. This enables the efficient production and utilization of peptones in industrial processes. Peptones are also used in the food and beverage industry for various applications, including microbial fermentation and flavor enhancement. North America has a sizable food and beverage sector, contributing to the demand for peptones.

### Key Market Players

Thermo Fisher Scientific Inc.

Hardy Diagnostics Inc.

BD Biosciences Systems & Reagents Inc.

Biospringer S.A

Merck Millipore Ltd

Liangshan Ketai Biologics Products Co Ltd.

Xinhua Biochemical Tech Development

HiMedia Laboratories

Titan Biotech Ltd.

Kerry Group

### Report Scope:

In this report, the Global Peptone Market has been segmented into the following



categories, in addition to the industry trends which have also been detailed below:

Peptone Market, By Type:

Animal Peptone

Plant Peptone

Microbial Peptone

Others

Peptone Market, By Application:

Pharmaceutical

Research Institution

Food Industry

Industrial Applications

Others

Peptone Market, By region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

South Korea

Australia

Japan

Europe

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global

*Peptone Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (...)*

Peptone Market.

Available Customizations:

Global Peptone 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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