

# Peptone Market Forecasts to 2030 – Global Analysis By Source (Plant Peptone, Animal Peptone, Microbial Peptone and Other Sources), Form, Application, End User and By Geography

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## Abstracts

According to Statistics MRC, the Global Peptone Market is accounted for \$152.63 million in 2024 and is expected to reach \$215.72 million by 2030 growing at a CAGR of 6.5% during the forecast period. Peptone is a water-soluble mixture of peptides and amino acids derived from the partial hydrolysis of proteins. It is commonly used in microbiological and biochemical research as a nutrient source for cultivating bacteria, yeast, and other microorganisms. They provide essential growth factors, such as nitrogen, carbon, and amino acids, which are vital for the metabolism and proliferation of microorganisms in laboratory cultures. Peptones are frequently found in culture media for microbial growth experiments.

According to the India Brand Equity Foundation, there are currently 5,000 biotech businesses in the country, of which, 760 are core businesses and 4,240 are start-ups. By 2024, it is anticipated that there will be about 10,000 businesses.

Market Dynamics:

Driver:

Rising demand for personalized medicine

Peptones are essential components in cell culture media used for the development and production of biopharmaceuticals, including personalized therapies. As personalized medicine focuses on tailoring treatments based on individual genetic profiles, there is an

increasing need for specialized, high-quality cell culture environments. Peptones provide the necessary nutrients to support cell growth and protein production. This demand for more targeted and customized therapies directly increases the need for peptones, fueling market expansion in the biotechnology and pharmaceutical sectors.

Restraint:

#### Environmental and ethical issues

Peptones, derived from animal or plant sources, raise environmental and ethical concerns, particularly regarding the use of animal-derived peptones. Issues include animal welfare, resource use, and potential contamination risks. Environmental impacts stem from deforestation and water usage associated with sourcing materials. Ethical concerns center on the treatment of animals and the sustainability of production. These alternatives may reduce reliance on traditional peptone sources, limiting demand in certain industries.

Opportunity:

#### Advancements in microbial biotechnology

As microbial biotechnology improves, the production of peptones becomes more efficient and cost-effective, enabling the creation of high-quality peptones from various sources. This progress allows for better optimization of fermentation processes in industries like pharmaceuticals, food, and beverages, as well as in the production of bio-based products. Additionally, biotechnology innovations enable the development of plant-based, synthetic, or recombinant peptones, catering to growing demands for sustainable and ethical alternatives. These advancements expand the applications and availability of peptones, further driving market growth.

Threat:

#### Availability of alternatives

Alternatives to peptones include plant-based extracts, yeast extracts, and chemically defined media. These alternatives offer advantages like reduced risk of animal-derived contaminants and greater consistency. Additionally, alternatives may cater to the growing demand for vegan and cruelty-free products, prompting industries to shift away

from traditional peptones. This competition, coupled with concerns over regulatory approvals and production scalability of alternatives, can slow down the market expansion for peptones.

#### Covid-19 Impact:

The covid-19 pandemic had a mixed impact on the peptone market. While the demand for peptones surged due to increased biotechnology and pharmaceutical research, especially for vaccine development and diagnostic tests, the market also faced challenges. Additionally, some research projects were temporarily halted, affecting market growth. Despite these setbacks, the overall market showed resilience with a significant increase in research-driven demand for peptones.

The peptone water segment is expected to be the largest during the forecast period

The peptone segment is expected to account for the largest market share during the forecast period. Peptone water is a nutrient-rich liquid medium used primarily in microbiological research and diagnostic applications. It contains peptones, which are derived from protein sources like meat or plant matter, providing essential amino acids and growth factors for bacterial and fungal cultivation. Its ability to support a wide range of microorganisms makes it vital in microbiology laboratories.

The fermentation segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the fermentation segment is predicted to witness the highest growth rate. Peptone is a vital ingredient in fermentation applications, serving as a rich source of amino acids, peptides, and vitamins essential for microbial growth. It supports the development of microorganisms in the production of bio-based products like enzymes, antibiotics, and biofuels. Its role is critical in industries such as pharmaceuticals, biotechnology, and food production, making it indispensable for efficient fermentation processes.

#### Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to the rising demand for high-quality peptides used in biotechnology, pharmaceuticals, and research. Regions such as China, Japan, India, South Korea, and Southeast Asia are well known for their rapidly developing healthcare and biotech

sectors, contributing to increased investment in peptide production. Key players including biotechnology firms, and peptide manufacturers, such as Sigma-Aldrich, Peptide Synthetics, and Bachem, dominates the regional landscape with innovative products and services.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by the thriving biotechnology and biopharmaceutical sectors. The region is home for several key players such as Thermo Fisher Scientific, Merck KGaA, and Solabia Group which dominate the market. The region's well-established research infrastructure, coupled with significant investments in life sciences and healthcare, provides a fertile ground for the continued growth of the North American peptone market.

Key players in the market

Some of the key players in Peptone market include Thermo Fisher Scientific, Merck KGaA, Sigma-Aldrich, BD Biosciences, Neogen Corporation, HiMedia Laboratories, DuPont, Hardy Diagnostics, MP Biomedicals, Proliant Biologicals, Kerry, Inc., Solabia Group, Global BioIngredients Inc., Titan Biotech Limited, Biotechnica, Wako Pure Chemical Industries and Nu-Tek BioSciences.

Key Developments:

In September 2024, Nu-Tek BioSciences launched two new versions of their Soy Peptone, specifically designed to meet the diverse needs of cell culture media applications. These new offerings expand Nu-Tek's portfolio of animal-free, non-GMO soy peptones, which are widely used in microbiological media, fermentation nutrient systems, and cell culture media.

In November 2021, Biotechnica introduced a new line of low endotoxin peptones. Biotechnica's new line of low endotoxin peptones eliminates the need for ultrafiltration, making the process more efficient and cost-effective. This development could help Biotechnica stand out in the competitive market of peptone suppliers by offering a product that addresses both technical and economic challenges in cell culture and microbiology applications.

Sources Covered:

Plant Peptone

Animal Peptone

Microbial Peptone

Other Sources

Forms Covered:

Peptone Powder

Peptone Water

Applications Covered:

Microbial Culture Media

Cell Culture

Fermentation

Diagnostics

Other Applications

End Users Covered:

Pharmaceutical & Biotechnology Companies

Food & Beverage Companies

Agriculture

Animal Feed Companies

Research & Development Institutes

Cosmetic Companies

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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