

Peptone Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

Market Report | 2025-08-12 | 165 pages | EMR Inc.

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Report description:

The global peptone market is expected to grow at a CAGR of 4.80% in the forecast period of 2025-2034.

Favourable Properties of Peptone to Augment the Product Demand in Several Application Sectors

Peptone is widely used as a microbial growth medium. Being a water-soluble mixture of polypeptides and amino acids, which are widely utilised in various biological and biotechnological applications, peptone serves as an excellent natural source of peptides, proteins, and, amino acids in growth media. It also serves as a source of nitrogen in many complex media and does not coagulate on heating, is soluble in water, and thus, is particularly ideal for inclusion in microbiological culture media.

Peptone has proved to be a good supplement and an alternative to serums utilised in the growth of the mammalian cells and the manufacture of biological products. Further, peptone supplementation provides several benefits in cell culture applications as it contains low molecular weight nutrients, peptides, and free amino acids, which are considered suitable for this application.

Region-wise, North America is expected to account for a significant share in the industry. The industry growth in the region can be attributed to the growing R&D activities and advancements in biotechnological applications.

Peptone: Market Segmentation

Peptone refers to a partially digested protein that is prepared by the enzymatic or acidic hydrolysis of proteinaceous substance. The resulting hydrolysate acts as a source of secondary protein derivatives like dipeptides, polypeptides, and amino acids. Peptone is mainly derived from bovine or porcine origin, like meat, gelatine, internal organs, and milk, as well as from yeasts and plants. A number of peptones and extracts are available in the market, and they have the ability to promote and sustain the growth of most organisms.

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The major sources of peptone are:

- Plant
- Animal
- Microbial
- Others

Based on application, the industry can be segmented into:

- Pharmaceuticals
- Food
- Cosmetics
- Research
- Others

Market Breakup by region:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Advancements in Biotechnology and Growing R&D Activities to Boost the Peptone Industry

The peptone industry is being driven by the thriving pharmaceuticals sector and advancements in biotechnology. Peptone is used by microbiologists and scientists to carry out research activities and produce antibiotics, vaccines, and other formulations. The growing demand for peptone to promote the growth of microorganisms and provide them with nutrients for various applications in industries like food and cosmetics is also aiding the market growth. The growing research and development activities by the manufacturers are significantly contributing to the market expansion. As the resulting microbial culture takes up components from the growth media, there has been an increase in demand for BSE (bovine spongiform encephalopathy) and GMO-free peptones. The manufacturers are heavily investing in the production of peptones and extracts that are BSE- and GMO-free, which are two of the major safety-related concerns. They are using plants as the natural source of peptone production, not just to eliminate the potential risk of BSE, but also because plant-based peptone offers better growth results for some microorganisms. This is expected to positively influence the industry growth over the forecast period.

Key Industry Players in the Global Peptone Market

The report gives a detailed analysis of the following key players in the global peptone market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Kerry, Inc.
- Solabia Group
- Global BioIngredients Inc.
- Titan Biotech limited

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- Biotechnica
- SUBONEYO Chemicals Pharmaceuticals P Limited
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

Table of Contents:

- 1 Executive Summary
 - 1.1 Market Size 2024-2025
 - 1.2 Market Growth 2025(F)-2034(F)
 - 1.3 Key Demand Drivers
 - 1.4 Key Players and Competitive Structure
 - 1.5 Industry Best Practices
 - 1.6 Recent Trends and Developments
 - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Regions
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global Peptone Market Analysis
 - 5.1 Key Industry Highlights
 - 5.2 Global Peptone Historical Market (2018-2024)
 - 5.3 Global Peptone Market Forecast (2025-2034)
 - 5.4 Global Peptone Market by Source
 - 5.4.1 Plant
 - 5.4.1.1 Historical Trend (2018-2024)
 - 5.4.1.2 Forecast Trend (2025-2034)
 - 5.4.2 Animal

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- 5.4.2.1 Historical Trend (2018-2024)
- 5.4.2.2 Forecast Trend (2025-2034)
- 5.4.3 Microbial
 - 5.4.3.1 Historical Trend (2018-2024)
 - 5.4.3.2 Forecast Trend (2025-2034)
- 5.4.4 Others
- 5.5 Global Peptone Market by Application
 - 5.5.1 Pharmaceuticals
 - 5.5.1.1 Historical Trend (2018-2024)
 - 5.5.1.2 Forecast Trend (2025-2034)
 - 5.5.2 Food
 - 5.5.2.1 Historical Trend (2018-2024)
 - 5.5.2.2 Forecast Trend (2025-2034)
 - 5.5.3 Cosmetics
 - 5.5.3.1 Historical Trend (2018-2024)
 - 5.5.3.2 Forecast Trend (2025-2034)
 - 5.5.4 Research
 - 5.5.4.1 Historical Trend (2018-2024)
 - 5.5.4.2 Forecast Trend (2025-2034)
 - 5.5.5 Others
- 5.6 Global Peptone Market by Region
 - 5.6.1 North America
 - 5.6.1.1 Historical Trend (2018-2024)
 - 5.6.1.2 Forecast Trend (2025-2034)
 - 5.6.2 Europe
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
 - 5.6.3 Asia Pacific
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
 - 5.6.4 Latin America
 - 5.6.4.1 Historical Trend (2018-2024)
 - 5.6.4.2 Forecast Trend (2025-2034)
 - 5.6.5 Middle East and Africa
 - 5.6.5.1 Historical Trend (2018-2024)
 - 5.6.5.2 Forecast Trend (2025-2034)
- 6 North America Peptone Market Analysis
 - 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
 - 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Peptone Market Analysis
 - 7.1 United Kingdom
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)

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- 7.2 Germany
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
- 7.3 France
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
- 7.4 Italy
 - 7.4.1 Historical Trend (2018-2024)
 - 7.4.2 Forecast Trend (2025-2034)
- 7.5 Others
- 8 Asia Pacific Peptone Market Analysis
 - 8.1 China
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Japan
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)
 - 8.3 India
 - 8.3.1 Historical Trend (2018-2024)
 - 8.3.2 Forecast Trend (2025-2034)
 - 8.4 ASEAN
 - 8.4.1 Historical Trend (2018-2024)
 - 8.4.2 Forecast Trend (2025-2034)
 - 8.5 Australia
 - 8.5.1 Historical Trend (2018-2024)
 - 8.5.2 Forecast Trend (2025-2034)
 - 8.6 Others
- 9 Latin America Peptone Market Analysis
 - 9.1 Brazil
 - 9.1.1 Historical Trend (2018-2024)
 - 9.1.2 Forecast Trend (2025-2034)
 - 9.2 Argentina
 - 9.2.1 Historical Trend (2018-2024)
 - 9.2.2 Forecast Trend (2025-2034)
 - 9.3 Mexico
 - 9.3.1 Historical Trend (2018-2024)
 - 9.3.2 Forecast Trend (2025-2034)
 - 9.4 Others
- 10 Middle East and Africa Peptone Market Analysis
 - 10.1 Saudi Arabia
 - 10.1.1 Historical Trend (2018-2024)
 - 10.1.2 Forecast Trend (2025-2034)
 - 10.2 United Arab Emirates
 - 10.2.1 Historical Trend (2018-2024)
 - 10.2.2 Forecast Trend (2025-2034)
 - 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)

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- 10.3.2 Forecast Trend (2025-2034)
- 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
- 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Trade Analysis (HS Code - 354)
 - 13.1 Major Importing Countries
 - 13.1.1 By Volume
 - 13.1.2 By Value
 - 13.2 Major Exporting Countries
 - 13.2.1 By Volume
 - 13.2.2 By Value
- 14 Price Analysis
 - 14.1 North America Historical Price Trends (2018-2024) and Forecast (2025-2034)
 - 14.2 Europe Historical Price Trends (2018-2024) and Forecast (2025-2034)
 - 14.3 Asia Pacific Historical Price Trends (2018-2024) and Forecast (2025-2034)
 - 14.4 Latin America Historical Price Trends (2018-2024) and Forecast (2025-2034)
 - 14.5 Middle East and Africa Historical Price Trends (2018-2024) and Forecast (2025-2034)
- 15 Manufacturing Process
 - 15.1 Overview
 - 15.2 Detailed Process Flow
 - 15.3 Operation Involved
- 16 Competitive Landscape
 - 16.1 Supplier Selection
 - 16.2 Key Global Players
 - 16.3 Key Regional Players
 - 16.4 Key Player Strategies
 - 16.5 Company Profiles
 - 16.5.1 Kerry, Inc.
 - 16.5.1.1 Company Overview
 - 16.5.1.2 Product Portfolio
 - 16.5.1.3 Demographic Reach and Achievements

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- 16.5.1.4 Certifications
- 16.5.2 Solabia Group
 - 16.5.2.1 Company Overview
 - 16.5.2.2 Product Portfolio
 - 16.5.2.3 Demographic Reach and Achievements
 - 16.5.2.4 Certifications
- 16.5.3 Global BioIngredients Inc.
 - 16.5.3.1 Company Overview
 - 16.5.3.2 Product Portfolio
 - 16.5.3.3 Demographic Reach and Achievements
 - 16.5.3.4 Certifications
- 16.5.4 Titan Biotech limited
 - 16.5.4.1 Company Overview
 - 16.5.4.2 Product Portfolio
 - 16.5.4.3 Demographic Reach and Achievements
 - 16.5.4.4 Certifications
- 16.5.5 Biotechnica
 - 16.5.5.1 Company Overview
 - 16.5.5.2 Product Portfolio
 - 16.5.5.3 Demographic Reach and Achievements
 - 16.5.5.4 Certifications
- 16.5.6 SUBONEYO Chemicals Pharmaceuticals P Limited
 - 16.5.6.1 Company Overview
 - 16.5.6.2 Product Portfolio
 - 16.5.6.3 Demographic Reach and Achievements
 - 16.5.6.4 Certifications
- 16.5.7 Others

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