

Peptone Market By Source of Peptone (Animal Peptone, Plant Peptone, Microbial Peptone, Mixed Peptone), By End User (Pharmaceutical and Biotech Industry, Research Institutions, Food and Beverage Industry, Others), By Application (Cell Culture, Fermentation, Food and Beverages, Others): Global Opportunity Analysis and Industry Forecast, 2024-2035

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Abstracts

The peptone market was valued at \$149.5 million in 2023 and is estimated to reach \$240.9 million by 2035, exhibiting a CAGR of 4.2% from 2024 to 2035.

Peptone is a water-soluble protein derivative obtained through the partial hydrolysis of animal, plant, or microbial protein sources using enzymes or acids. They are widely used in laboratories and industries for cultivating bacteria, fungi, and other microorganisms. They play a crucial role in pharmaceutical research, diagnostics, and fermentation processes, contributing to the production of antibiotics, enzymes, and other biologics.

The global peptone market is witnessing notable growth due to factors such as increase in microbiology-based research in pharmaceutical, academic, and healthcare sectors and rise in efforts to develop vaccines, antibiotics, and probiotics. Furthermore, expansion of biotechnology and pharmaceutical industries significantly contributes toward the market growth. Moreover, alarming rise in prevalence of infectious diseases has resulted in increased investment in diagnostic labs globally, which, in turn, drives the consumption of peptones.

According to the prevalence of infectious diseases National Hospital Ambulatory Medical Care Survey: 2021, the number of emergency department visits due to infectious and parasitic diseases was recorded to be 3.8 million in the U.S. alone. Among these, hospital admissions were estimated to reach 482,000. This emphasizes the urgent need for peptone. In addition, increase in use of peptones in vaccine productions acts as a key driving force of the global market. This is attributed to the fact that peptones serves as the primary nutrient source in the growth media for culturing microorganisms, such as bacteria or viruses, that are used to produce vaccines. These nutrient-rich protein hydrolysates provide essential amino acids, peptides, vitamins, and minerals necessary for optimal microbial or cell growth during vaccine manufacturing. A 2021 study published by Taylor & Francis—one of the world's largest publishers of open access research revealed that approximately 2–3 million lives are saved every year due to routine vaccination. Rise in application of peptones in the food & beverages industry future fuels the market growth, as they are used in the fermentation processes for the production of beverages, dairy products, and dietary supplements.

However, high cost associated with manufacturing of peptones, which involves complex processes such as enzymatic or acid hydrolysis, restrains the market growth. In addition, advances in synthetic and chemically defined media are offering alternatives to peptones, particularly in applications requiring precision and reproducibility, such as cell culture for monoclonal antibody production, thereby hampering the market growth. On the contrary, the global focus on sustainable bio-based products supports the adoption of peptones as fermentation nutrients, which is expected to offer lucrative opportunities for the market growth. Moreover, concerns over animal-derived peptones and a shift toward vegan and animal-free alternatives in pharmaceuticals and food applications have opened new avenues for plant-based or microbial peptones.

The global peptone market is segmented into source of peptone, application, end user, and region. By source of peptone, the market is divided into animal peptone, plant peptone, microbial peptone, and mixed peptone. On the basis of end user, it is segregated into pharmaceutical & biotech industry, research institutions, food & beverage industry, and others. Depending on application, it is categorized into cell culture, fermentation, food & beverages, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of source of peptone, the animal peptone segment dominated the

market share in 2023.

Depending on end user, the pharmaceutical & biotech industry segment was the major shareholder in 2023, and is expected to grow at the highest CAGR from 2024 to 2035.

By application, the cell culture segment garnered the largest share in 2023, and is anticipated to exhibit the highest CAGR during the forecast period

Region wise, North America was the largest shareholder in the peptone market in 2023.

Competitive Analysis

The key players that operate in the global peptone market are Thermo Fisher Scientific Inc., Solabia Group, Kerry Inc, Nu-Tek Biosciences, Becton Dickinson and Company, Himedia Laboratories, Liofilchem S.R.L, Neogen Corporation, Merck KGaA, and Titan Biotech Ltd. These players have adopted acquisition, agreement, collaboration, joint venture, partnership, and product launch as their key developmental strategies to sustain the intense competition and gain a strong foothold in the global market.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the peptone market analysis from 2019 to 2035 to identify the prevailing peptone market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the peptone market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue

contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global peptone market trends, key players, market segments, application areas, and market growth strategies.

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Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

SWOT Analysis

Key Market Segments

By Source of Peptone

Animal Peptone

Plant Peptone

Microbial Peptone

Mixed Peptone

By End User

Pharmaceutical and Biotech Industry

Research Institutions

Food and Beverage Industry

Others

By Application

Cell Culture

Fermentation

Food and Beverages

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

Australia

India

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Kerry Group plc

Becton, Dickinson and Company

HiMedia Laboratories

Neogen Corporation

Merck KGaA

Solabia Group

Titan Biotech Ltd.

Thermo Fisher Scientific

Liofilchem S.r.l

Nu-Tek BioSciences

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: PEPTONE MARKET, BY SOURCE OF PEPTONE

- 4.1. Overview
 - 4.1.1. Market size and forecast
- 4.2. Animal Peptone
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market share analysis by country
- 4.3. Plant Peptone
 - 4.3.1. Key market trends, growth factors and opportunities
 - 4.3.2. Market size and forecast, by region

- 4.3.3. Market share analysis by country
- 4.4. Microbial Peptone
 - 4.4.1. Key market trends, growth factors and opportunities
 - 4.4.2. Market size and forecast, by region
 - 4.4.3. Market share analysis by country
- 4.5. Mixed Peptone
 - 4.5.1. Key market trends, growth factors and opportunities
 - 4.5.2. Market size and forecast, by region
 - 4.5.3. Market share analysis by country

CHAPTER 5: PEPTONE MARKET, BY END USER

- 5.1. Overview
 - 5.1.1. Market size and forecast
- 5.2. Pharmaceutical and Biotech Industry
 - 5.2.1. Key market trends, growth factors and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market share analysis by country
- 5.3. Research Institutions
 - 5.3.1. Key market trends, growth factors and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market share analysis by country
- 5.4. Food and Beverage Industry
 - 5.4.1. Key market trends, growth factors and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Market share analysis by country
- 5.5. Others
 - 5.5.1. Key market trends, growth factors and opportunities
 - 5.5.2. Market size and forecast, by region
 - 5.5.3. Market share analysis by country

CHAPTER 6: PEPTONE MARKET, BY APPLICATION

- 6.1. Overview
 - 6.1.1. Market size and forecast
- 6.2. Cell Culture
 - 6.2.1. Key market trends, growth factors and opportunities
 - 6.2.2. Market size and forecast, by region
 - 6.2.3. Market share analysis by country

6.3. Fermentation

6.3.1. Key market trends, growth factors and opportunities

6.3.2. Market size and forecast, by region

6.3.3. Market share analysis by country

6.4. Food and Beverages

6.4.1. Key market trends, growth factors and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market share analysis by country

6.5. Others

6.5.1. Key market trends, growth factors and opportunities

6.5.2. Market size and forecast, by region

6.5.3. Market share analysis by country

CHAPTER 7: PEPTONE MARKET, BY REGION

7.1. Overview

7.1.1. Market size and forecast By Region

7.2. North America

7.2.1. Key market trends, growth factors and opportunities

7.2.2. Market size and forecast, by Source of Peptone

7.2.3. Market size and forecast, by End User

7.2.4. Market size and forecast, by Application

7.2.5. Market size and forecast, by country

7.2.5.1. U.S.

7.2.5.1.1. Market size and forecast, by Source of Peptone

7.2.5.1.2. Market size and forecast, by End User

7.2.5.1.3. Market size and forecast, by Application

7.2.5.2. Canada

7.2.5.2.1. Market size and forecast, by Source of Peptone

7.2.5.2.2. Market size and forecast, by End User

7.2.5.2.3. Market size and forecast, by Application

7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by Source of Peptone

7.2.5.3.2. Market size and forecast, by End User

7.2.5.3.3. Market size and forecast, by Application

7.3. Europe

7.3.1. Key market trends, growth factors and opportunities

7.3.2. Market size and forecast, by Source of Peptone

7.3.3. Market size and forecast, by End User

7.3.4. Market size and forecast, by Application

7.3.5. Market size and forecast, by country

7.3.5.1. Germany

7.3.5.1.1. Market size and forecast, by Source of Peptone

7.3.5.1.2. Market size and forecast, by End User

7.3.5.1.3. Market size and forecast, by Application

7.3.5.2. France

7.3.5.2.1. Market size and forecast, by Source of Peptone

7.3.5.2.2. Market size and forecast, by End User

7.3.5.2.3. Market size and forecast, by Application

7.3.5.3. UK

7.3.5.3.1. Market size and forecast, by Source of Peptone

7.3.5.3.2. Market size and forecast, by End User

7.3.5.3.3. Market size and forecast, by Application

7.3.5.4. Italy

7.3.5.4.1. Market size and forecast, by Source of Peptone

7.3.5.4.2. Market size and forecast, by End User

7.3.5.4.3. Market size and forecast, by Application

7.3.5.5. Spain

7.3.5.5.1. Market size and forecast, by Source of Peptone

7.3.5.5.2. Market size and forecast, by End User

7.3.5.5.3. Market size and forecast, by Application

7.3.5.6. Rest of Europe

7.3.5.6.1. Market size and forecast, by Source of Peptone

7.3.5.6.2. Market size and forecast, by End User

7.3.5.6.3. Market size and forecast, by Application

7.4. Asia-Pacific

7.4.1. Key market trends, growth factors and opportunities

7.4.2. Market size and forecast, by Source of Peptone

7.4.3. Market size and forecast, by End User

7.4.4. Market size and forecast, by Application

7.4.5. Market size and forecast, by country

7.4.5.1. Japan

7.4.5.1.1. Market size and forecast, by Source of Peptone

7.4.5.1.2. Market size and forecast, by End User

7.4.5.1.3. Market size and forecast, by Application

7.4.5.2. China

7.4.5.2.1. Market size and forecast, by Source of Peptone

7.4.5.2.2. Market size and forecast, by End User

7.4.5.2.3. Market size and forecast, by Application

7.4.5.3. Australia

7.4.5.3.1. Market size and forecast, by Source of Peptone

7.4.5.3.2. Market size and forecast, by End User

7.4.5.3.3. Market size and forecast, by Application

7.4.5.4. India

7.4.5.4.1. Market size and forecast, by Source of Peptone

7.4.5.4.2. Market size and forecast, by End User

7.4.5.4.3. Market size and forecast, by Application

7.4.5.5. South Korea

7.4.5.5.1. Market size and forecast, by Source of Peptone

7.4.5.5.2. Market size and forecast, by End User

7.4.5.5.3. Market size and forecast, by Application

7.4.5.6. Rest of Asia-Pacific

7.4.5.6.1. Market size and forecast, by Source of Peptone

7.4.5.6.2. Market size and forecast, by End User

7.4.5.6.3. Market size and forecast, by Application

7.5. LAMEA

7.5.1. Key market trends, growth factors and opportunities

7.5.2. Market size and forecast, by Source of Peptone

7.5.3. Market size and forecast, by End User

7.5.4. Market size and forecast, by Application

7.5.5. Market size and forecast, by country

7.5.5.1. Brazil

7.5.5.1.1. Market size and forecast, by Source of Peptone

7.5.5.1.2. Market size and forecast, by End User

7.5.5.1.3. Market size and forecast, by Application

7.5.5.2. Saudi Arabia

7.5.5.2.1. Market size and forecast, by Source of Peptone

7.5.5.2.2. Market size and forecast, by End User

7.5.5.2.3. Market size and forecast, by Application

7.5.5.3. South Africa

7.5.5.3.1. Market size and forecast, by Source of Peptone

7.5.5.3.2. Market size and forecast, by End User

7.5.5.3.3. Market size and forecast, by Application

7.5.5.4. Rest of LAMEA

7.5.5.4.1. Market size and forecast, by Source of Peptone

7.5.5.4.2. Market size and forecast, by End User

7.5.5.4.3. Market size and forecast, by Application

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top winning strategies
- 8.3. Product mapping of top 10 player
- 8.4. Competitive dashboard
- 8.5. Competitive heatmap
- 8.6. Top player positioning, 2019

CHAPTER 9: COMPANY PROFILES

- 9.1. Thermo Fisher Scientific
 - 9.1.1. Company overview
 - 9.1.2. Key executives
 - 9.1.3. Company snapshot
 - 9.1.4. Operating business segments
 - 9.1.5. Product portfolio
 - 9.1.6. Business performance
 - 9.1.7. Key strategic moves and developments
- 9.2. Solabia Group
 - 9.2.1. Company overview
 - 9.2.2. Key executives
 - 9.2.3. Company snapshot
 - 9.2.4. Operating business segments
 - 9.2.5. Product portfolio
 - 9.2.6. Business performance
 - 9.2.7. Key strategic moves and developments
- 9.3. Kerry Group plc
 - 9.3.1. Company overview
 - 9.3.2. Key executives
 - 9.3.3. Company snapshot
 - 9.3.4. Operating business segments
 - 9.3.5. Product portfolio
 - 9.3.6. Business performance
 - 9.3.7. Key strategic moves and developments
- 9.4. Becton, Dickinson and Company
 - 9.4.1. Company overview
 - 9.4.2. Key executives

- 9.4.3. Company snapshot
- 9.4.4. Operating business segments
- 9.4.5. Product portfolio
- 9.4.6. Business performance
- 9.4.7. Key strategic moves and developments
- 9.5. HiMedia Laboratories
 - 9.5.1. Company overview
 - 9.5.2. Key executives
 - 9.5.3. Company snapshot
 - 9.5.4. Operating business segments
 - 9.5.5. Product portfolio
 - 9.5.6. Business performance
 - 9.5.7. Key strategic moves and developments
- 9.6. Liofilchem S.r.l.
 - 9.6.1. Company overview
 - 9.6.2. Key executives
 - 9.6.3. Company snapshot
 - 9.6.4. Operating business segments
 - 9.6.5. Product portfolio
 - 9.6.6. Business performance
 - 9.6.7. Key strategic moves and developments
- 9.7. Neogen Corporation
 - 9.7.1. Company overview
 - 9.7.2. Key executives
 - 9.7.3. Company snapshot
 - 9.7.4. Operating business segments
 - 9.7.5. Product portfolio
 - 9.7.6. Business performance
 - 9.7.7. Key strategic moves and developments
- 9.8. Merck KGaA
 - 9.8.1. Company overview
 - 9.8.2. Key executives
 - 9.8.3. Company snapshot
 - 9.8.4. Operating business segments
 - 9.8.5. Product portfolio
 - 9.8.6. Business performance
 - 9.8.7. Key strategic moves and developments
- 9.9. Titan Biotech Ltd.
 - 9.9.1. Company overview

- 9.9.2. Key executives
- 9.9.3. Company snapshot
- 9.9.4. Operating business segments
- 9.9.5. Product portfolio
- 9.9.6. Business performance
- 9.9.7. Key strategic moves and developments
- 9.10. Nu-Tek BioSciences
 - 9.10.1. Company overview
 - 9.10.2. Key executives
 - 9.10.3. Company snapshot
 - 9.10.4. Operating business segments
 - 9.10.5. Product portfolio
 - 9.10.6. Business performance
 - 9.10.7. Key strategic moves and developments

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