

**Peptide Synthesis Market by Reagents (Resins, Amino Acid, Dyes), Instruments (Peptide Synthesizer, Chromatography, Lyophilizer), Technique (Solid-phase, Solution-phase, Hybrid), Services, Application (Therapeutics), End User - Global Forecast to 2029**

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**Report description:**

The global peptide synthesis market is projected to surpass USD 1.41 billion in 2029 from USD 0.81 billion in 2024, with a significant CAGR of 11.7%. The peptide synthesis market is driven by several factors such as advancements in technology, increasing research in drug discovery, and the growing demand for personalized medicine. Additionally, the rising prevalence of chronic diseases such as cancer and diabetes is fueling demand for therapeutic peptides in targeted therapies further propelling the growth of the market.

"Resins and Amino acids accounted for the dominant share in the reagents market"

Based on offerings (products & services), products (Consumables and Instruments), consumables (Reagents and Other Consumables), Reagents (Resins, Amino Acids, Coupling Reagents, Dyes and Fluorescent Labelling Reagents, Deprotection Reagents, Cleavage Reagents and Other Reagents), Instruments (Peptide Synthesizers (automated and manual), Chromatography Equipment, Lyophilizers and Others). Resins form the foundation of solid-phase peptide synthesis (SPPS), serving as a stable platform for the stepwise construction of peptide chains. Advancements in resins such as preloaded resins and specialized linkers are likely to impact positively on the market.

"Peptide synthesis services dominated the market"

The services segment is further segmented into peptide library synthesis, peptide synthesis, peptide purification services, and peptide analysis services. Peptide synthesis services dominated the market due to their ability to meet the increasing demand for custom and complex peptides required in drug discovery, therapeutic development, and research applications. Additionally, the rise of personalized medicine and peptide-based vaccines has increased the demand for custom synthesis driving the segmental

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growth.

"Therapeutics segment dominated the application segment in 2023"

Applications segment is divided into Therapeutics, Diagnostics and Research & Development. Therapeutics by Indications (Cancer, Diabetes, Obesity, Autoimmune Disease and Other Disease Indication), Therapeutics by Molecules (Peptide-Based Vaccines, Peptide-Drug Conjugates (PDCs), Peptide Inhibitors and Other Molecules). Advancements in peptide synthesis technologies, such as solid-phase peptide synthesis (SPPS) and recombinant DNA methods, has enabled the efficient production of high-purity, cost-effective peptides for vaccine development. The growing focus on personalized immunotherapies and increased investment in peptide-based vaccine research further reinforce their leading position in the market.

"North America: the largest share of the peptide synthesis market"

The market is segmented by region into North America, Europe, Asia Pacific, Latin America, the Middle East, and Africa. North America dominated the peptide synthesis market in 2023 and is estimated to continue dominance during the forecast period. US leads the North American market, driven by the strong presence of key players like Thermo Fisher Scientific and CEM Corporation, with substantial funding for biomedical research and innovation in peptide-based therapeutics. Europe holds a significant share of the market, with countries like Germany, and UK being major contributors. This dominance attributed to strong R&D activities, collaborations between academic institutions and industry, and a growing focus on personalized medicine and peptide-based drugs.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the peptide synthesis market.

The primary interviews conducted for this report can be categorized as follows:

-□By Respondent: Tier 1- 45%, Tier 2- 35%, Tier 3- 20%

-□By Designation: Managers - 45%, CXO & Directors - 30%, and Executives - 25%

-□By Region: North America -40%, Europe -25%, Asia-Pacific -25%, Latin America -5% and Middle East & Africa- 5%

Bachem Holding AG (Switzerland), Thermo Fisher Scientific, Inc. (US), Merck KGaA (Germany), GenScript (China), and CEM Corporation (US) are some of the major players operating in the peptide synthesis market.

Research Coverage:

This research report categorizes the peptide synthesis market offerings (products & services), products (Consumables and Instruments), consumables (Reagents and Other Consumables), Reagents (Resins, Amino Acids, Coupling Reagents, Dyes and Fluorescent Labelling Reagents, Deprotection Reagents, Cleavage Reagents and Other Reagents), Instruments (Peptide Synthesizers (automated and manual), Chromatography Equipment, Lyophilizers and Others). Services (Peptide Library Synthesis, Peptide Synthesis, Peptide Purification Services and Peptide Analysis Services), Technique (Chemical (Solid Phase Peptide Synthesis, Solution Phase peptide synthesis and Other Chemical Methods and Biological (Recombinant DNA Technology and Enzymes), Applications (Therapeutics, Diagnostics and Research & Development), Therapeutics by Indications (Cancer, Diabetes, Obesity, Autoimmune Disease and Other Disease Indication), Therapeutics by Molecules (Peptide-Based Vaccines, Peptide-Drug Conjugates (PDCs), Peptide Inhibitors and Other Molecules), End User (Pharmaceutical and biotechnology companies, CDMOs & CROs, Academic & Research Institutes, Medical Device Companies and Hospitals and Diagnostic Centers). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the peptide synthesis market. A detailed analysis of the key industry players has been done to provide insights into their business overview, products, key strategies, collaborations, partnerships, and agreements. New launches, collaborations and acquisitions, and recent developments associated with the peptide synthesis market.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the peptide synthesis and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and

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challenges.

The report provides insights on the following pointers:

- Analysis of key drivers (advancements in peptide therapeutics, technological advancements, growing use of peptides in diagnostics and research), restraints (Regulatory Hurdles, High cost of peptide synthesis and instruments), opportunities (Adoption of personalized medicine, Rise in strategic collaborations and partnerships) and Challenges (Addressing Immunogenicity, Environmental Concerns) influencing the growth of the market.
- Product/Service Development/Innovation: Detailed insights on upcoming technologies in peptide synthesis manufacturing, research and development activities, and new product/service launches in the peptide synthesis market.
- Market Development: Comprehensive information about lucrative markets - the report analyses the market across varied regions.
- Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the peptide synthesis market
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product & service offerings of leading players Thermo Fisher Scientific, Inc. (US), Bachem Holding AG (Switzerland), Kaneka Corporation (US), Inc. and Merck KGaA (Germany), among others.

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