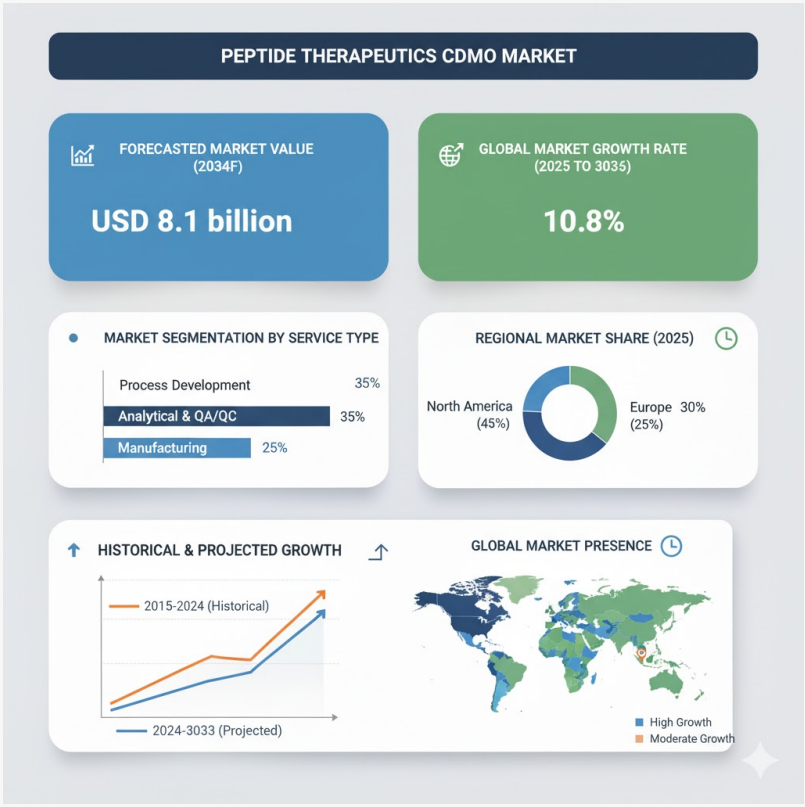
Peptide Therapeutics CDMO Market to Reach USD 8.1 Bn by 2035 Amid Rising Demand for Advanced Peptide Drug Manufacturing

Prominent players in the market include Bachem AG, PolyPeptide Group, CPC Scientific Inc., Lonza Group Ltd., CordenPharma International, and GenScript



Peptide Therapeutics CDMO Market

ROCKVILLE, MD, UNITED STATES, October 15, 2025 /EINPresswire.com/ -- The global peptide therapeutics CDMO market stands at the threshold of a decade-long expansion trajectory that promises to reshape pharmaceutical contract manufacturing infrastructure and advanced peptide synthesis systems. According to a recent industry report by Fact.MR, the market is projected to surge from USD 2.9 billion in 2025 to USD 8.1 billion by 2035, expanding at a robust CAGR of 10.8% during the forecast period.

Driven by the increasing prevalence of chronic diseases, growing interest in peptide-based therapeutics, and the ongoing shift toward outsourcing complex drug development processes, CDMOs are evolving as crucial partners for global biopharmaceutical innovation.

Strategic Market Drivers:

Rising Demand for Complex Peptide Drugs

Peptides are increasingly being used in oncology, metabolic disorders, and infectious disease therapies due to their high specificity and biocompatibility. As formulation complexity rises, pharmaceutical companies are turning to specialized CDMOs for expertise in solid-phase synthesis, purification, and scalable manufacturing.

Shift Toward Outsourced Manufacturing

With rising R&D costs and regulatory pressures, biotech and pharma innovators are outsourcing peptide production to reduce capital expenditure and accelerate time-to-market. This shift boosts demand for CDMOs offering end-to-end solutions, from early-phase development to commercial-scale production.

Technological Advancements in Peptide Synthesis

Automation, green chemistry, and continuous flow synthesis are revolutionizing peptide manufacturing. Advanced CDMOs are integrating AI-driven process optimization and high-throughput screening systems to improve yield, purity, and sustainability in peptide production.

Regulatory Compliance and Quality Standards

Stringent cGMP and FDA/EMA guidelines are driving CDMOs to enhance quality control and traceability. Facilities equipped with digital quality management systems (QMS) and real-time analytics are setting new benchmarks for compliance and reliability.

Regional Growth Highlights

North America: Innovation and Clinical Expansion

The U.S. remains the largest market for peptide therapeutics CDMOs, supported by a robust biotech ecosystem and growing pipeline of peptide-based drugs. High clinical trial activity and government funding for novel therapeutics strengthen regional dominance.

Europe: Regulatory Excellence and Technological Leadership

Europe's advanced manufacturing infrastructure, coupled with strict quality standards, fuels demand for CDMO partnerships. Countries like Switzerland, Germany, and the U.K. lead in high-purity peptide synthesis and GMP-certified facilities.

East Asia: Rapidly Growing Outsourcing Hub

China, Japan, and South Korea are emerging as global hubs for cost-effective peptide production. The region's growing biopharmaceutical capacity and investments in state-of-the-art manufacturing plants are positioning it as a critical CDMO destination.

Emerging Markets: Untapped Potential

Regions like Latin America and the Middle East are gaining traction as outsourcing destinations

due to improving regulatory frameworks and increasing government investments in biotech infrastructure.

Market Segmentation Insights

The peptide therapeutics CDMO market can be segmented by service type, application, and end user, each playing a critical role in defining the industry's growth dynamics.

By service type, the market encompasses process development, custom synthesis, API manufacturing, fill-finish and packaging, and analytical and regulatory support. Among these, custom synthesis and API manufacturing dominate the landscape as pharmaceutical companies increasingly outsource peptide development to achieve scalability, precision, and regulatory compliance. The growing emphasis on full-service CDMOs capable of offering end-to-end solutions—from peptide design to final product formulation—continues to reshape the competitive environment.

In terms of application, the market is driven by growing demand across multiple therapeutic areas, particularly oncology, metabolic disorders, infectious diseases, cardiovascular, and neurological conditions. The oncology segment leads global adoption as peptide-based drugs demonstrate strong efficacy in targeted cancer therapies. Meanwhile, metabolic and infectious disease applications are gaining momentum due to peptides' biocompatibility and reduced side-effect profiles compared to traditional small-molecule drugs.

By end user, the market is segmented into biopharmaceutical companies, academic and research institutions, and specialty pharma firms. Biopharmaceutical companies account for the largest share, propelled by their expanding peptide drug pipelines and strategic collaborations with CDMOs to streamline production and accelerate time-to-market. Academic and research institutions are also contributing to innovation through early-stage R&D and partnership-driven development programs.

Challenges and Market Considerations:

Despite strong momentum, the peptide therapeutics CDMO market faces several challenges:

High Production Costs: Peptide synthesis and purification remain cost-intensive, particularly for long or complex sequences.
Scale-up Limitations: Transitioning from lab-scale to commercial manufacturing requires significant process optimization.
Intellectual Property (IP) Concerns: Collaboration models must ensure IP protection and confidentiality between CDMOs and clients.
Regulatory Delays: Variations in international regulatory frameworks can slow approval processes and global supply chains.
Competitive Landscape

Key players driving innovation and competitiveness in the global peptide therapeutics CDMO market include:

Bachem AG
PolyPeptide Group
CPC Scientific Inc.
Lonza Group Ltd.
CordenPharma International
GenScript Biotech Corporation
Almac Group
Thermo Fisher Scientific Inc.
AmbioPharm Inc.
Peptides International Inc.

These companies focus on expanding capacity, automating production, and adopting green synthesis methods. Strategic partnerships with biopharma innovators and investments in large-scale GMP facilities are key trends shaping the competitive landscape.

Maufracture's Strategic Positioning

Maufracture aims to seize growth opportunities in the peptide therapeutics CDMO landscape through:

Advanced Peptide Manufacturing: Developing proprietary synthesis technologies and purification platforms.
Global Footprint Expansion: Strengthening presence across North America, Europe, and East Asia.
Sustainable Practices: Implementing eco-friendly production techniques and minimizing solvent waste.
Collaborative R&D: Partnering with biotech firms to accelerate discovery-to-commercialization pipelines.
Future Outlook: Driving the Next Generation of Biopharmaceutical Manufacturing

The next decade will define a transformative era for peptide therapeutics and CDMO services. As demand for complex biologics and precision medicines rises, CDMOs that blend technological excellence with regulatory compliance and sustainability will lead the charge.

Maufracture's strategic investments, innovation focus, and partnerships position it to play a pivotal role in shaping the next generation of peptide therapeutics manufacturing—bringing high-quality, scalable, and sustainable solutions to the forefront of global healthcare.

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Editor’s Note

This press release is based on insights from the latest Fact.MR report on the Peptide Therapeutics CDMO Market. The study provides comprehensive analysis, market forecasts, and competitive intelligence on global trends shaping the peptide contract development and manufacturing industry.

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