

## **2024 Protein Synthesis Research Review**

Market Research Report | 2025-03-21 | 209 pages | BCC Research

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### **Report description:**

Description

#### Research Review Scope

Protein synthesis is vital for all living organisms, enabling cells to produce the proteins they need to survive and function. It is a basic biological process that builds proteins in cells, which is essential for every cellular function. The key components of protein synthesis are Deoxyribonucleic acid (DNA), Ribonucleic acid (RNA), ribosomes, and amino acids.

The growing demand for protein therapeutics due to the increase in the prevalence of chronic diseases is a major factor driving this market. Advances in cell-free systems and improved expression vectors, which enhance efficiency and productivity, also help to boost the protein synthesis market. The developments towards cell-free systems, high-throughput technologies, and a focus on personalized medicine also act as key factors for the growth of the protein synthesis market. The high production costs and complex techniques affect the growth of the market.

The market includes major players such as Amgen Inc., Pfizer Inc., Genentech, USA Inc., and Eli Lilly, which mainly focus on protein therapeutics. The companies focusing on protein synthesis research and development include GenScript ProBio, Aldevron, Creative Biogene, and Terra Biosciences Inc.

Research Reviews from BCC Research provide market professionals with concise market coverage within a specific research category. This 2024 Research Review of protein-synthesis provides a sampling of the type of quantitative market information, analysis, and guidance that BCC Research has been developing since its inception in 1971 to help its customers make informed business decisions. This Research Review includes highlights and excerpts from the following reports published by BCC Research in 2024:

- BIO007N Commercial Amino Acids.
- BIO254A Global Recombinant Proteins Market.
- BIO220B Oligonucleotides: Global Markets.
- BIO253A PEGylated Proteins Market.
- BIO252A Peptide Synthesis: Global Markets.

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After you survey the excerpts in this Research Review, we encourage you to follow up on these topics by checking out the full market research reports associated with each topic. BCC Research looks forward to serving your market intelligence needs in the future.

## Executive Summary

### Summary:

- The global market for commercial amino acids is expected to grow from \$31.8 billion in 2024 to \$42.8 billion by 2029, at a compound annual growth rate (CAGR) of 6.1% from 2024 through 2029.
- The global market for recombinant proteins is expected to grow from \$141.8 billion in 2024 to \$203.6 billion by 2029, at a CAGR of 7.5% from 2024 through 2029.
- The global market for PEGylated proteins is expected to grow from \$10.2 billion in 2023 to \$15.9 billion by 2028, at a CAGR of 9.4% from 2023 through 2028.

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### **Table of Contents:**

- Table of Contents
- Chapter 1 Foreword
- Research Review Scope
- Chapter 2 Commercial Amino Acids (BIO007N)
- Market Outlook
- Scope of Report
- Market Summary
- Market Overview
- Commercial Interests
- Chemical Structure
- Market Dynamics
- Market Drivers
- Market Restraints
- Market Challenges
- Market Opportunity
- Regulatory Structure
- Global Regulatory Framework

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Regulatory Requirements for Different Applications  
Quality Control and Manufacturing Standards  
Emerging Technologies and Developments  
Metabolic Engineering and Synthetic Biology  
High-throughput Screening and Fermentation Optimization  
Continuous-Flow Biocatalysis  
Advanced Chromatography Techniques  
Hydroxy Amino Acids  
Green Chemistry and Sustainable Production  
Key Market Trends  
Commercial Amino Acids: Global Markets  
Commercial Amino Acids Market, by Product Type  
Methionine  
Lysine  
Threonine  
Tryptophan  
Phenylalanine  
Glutamic Acid  
Cysteine  
Aspartic Acid  
Glycine  
Alanine  
Arginine  
Proline  
Leucine  
Valine  
Tyrosine  
Other Amino Acids  
Commercial Amino Acids Market, by Application  
Animal Feed Applications  
Food Flavoring Applications  
Specialty Uses Applications  
Commercial Amino Acids Market, by Region  
North America  
Europe  
Asia-Pacific  
LATAM  
Rest of the World  
Sustainability in Commercial Amino Acids: An ESG Perspective  
Introduction to ESG  
Sustainability in the Commercial Amino Acids Market  
Understanding the ESG Data  
Chapter 3 Global Recombinant Proteins Market (BIO254A)  
Market Outlook  
Scope of Report  
Market Summary  
Market Overview

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Types of Expression Host Systems  
Mechanism of Action of Recombinant Proteins  
Common Steps Involved in Recombinant Protein Production  
Market Dynamics of Recombinant Proteins  
Drivers  
Restrains  
Opportunities  
Emerging Technologies and Developments in Recombinant Proteins  
Protein-Engineering Advances  
CRISPR Genome Editing  
Cell-Free Protein Synthesis  
Global Market for Recombinant Proteins, by Product Type  
Hormones  
Cytokines  
Enzymes  
Antibodies  
Antigens  
Others  
Global Market for Recombinant Proteins, by Host Cell Type  
Bacterial Host Cells  
Yeast and Fungi Cells  
Mammalian Cells  
Insect Cells  
Other Cells  
Global Market for Recombinant Proteins, by Application  
Therapeutics and Vaccines  
Biomedical Research  
Diagnostics  
Global Market for Recombinant Proteins, by Region  
North America  
Europe  
Asia-Pacific  
Rest of the World  
Sustainability in the Recombinant Proteins Market  
Understanding the ESG Data  
ESG Performance Analysis  
Concluding Remarks  
Chapter 4 Oligonucleotides: Global Markets (BIO220B)  
Market Outlook  
Scope of Report  
Market Insights  
Market Overview  
History of Oligonucleotide Synthesis  
Types of Oligonucleotides  
Alternative Forms of Oligonucleotide Synthesis  
Versatile Functions of Synthetic Oligonucleotides  
Regulatory Paths for Oligotherapeutics

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Animal Models and Studies  
Role of Regulatory Authorities  
Global Market Dynamics for Oligonucleotides  
Market Drivers  
Market Restraints  
Opportunities in the Market  
Emerging Applications in Various Fields  
Emerging Technologies and Developments in Oligonucleotides  
DNA Synthesizers  
Emerging Technologies  
Global Market for Oligonucleotide Synthesis, by Product Type  
Oligonucleotide Drugs  
Equipment and Reagents  
Synthesized Oligos  
Services  
Global Market for Oligonucleotide Synthesis, by Application  
Research  
Diagnostics and Therapeutics  
Global Market for Oligonucleotide Synthesis, by Region  
North America  
Europe  
Asia-Pacific  
Rest of the World  
ESG Developments in the Oligonucleotide Market  
Introduction to ESG  
Assessing the Sustainability of the Oligonucleotide Manufacturing Process  
ESG Performance in Market  
Concluding Remarks  
Chapter 5 PEGylated Proteins Market (BIO253A)  
Market Outlook  
Scope of Report  
Market Summary  
Market Overview  
Advantages of Protein PEGylation  
Limitations of PEGylated Therapeutics  
Market Dynamics for the PEGylated Proteins  
Market Drivers  
Market Restraints  
Market Opportunities  
Emerging Technologies and Developments  
Non-Covalent PEGylation  
PEGylation of Nanoparticles  
Antibody-Drug Conjugates (ADCs)  
Global PEGylated Proteins Market, by Protein Type  
Granulocyte-Colony Stimulating Factors (G-CSF)  
PEGylated Monoclonal Antibodies  
PEGylated Interferons

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PEGylated Recombinant Factors  
Other Protein Types  
Global PEGylated Proteins Market, by PEGylation Type  
Linear PEGylated Proteins  
Branched PEGylated Proteins  
Global PEGylated Proteins Market, by PEGylation Application  
Autoimmune Diseases  
Hematology  
Cancer  
Other Applications  
Global PEGylated Proteins Market, by Region  
North America  
Europe  
Asia-Pacific  
Rest of the World  
Sustainability in PEGylated Proteins Market: ESG Perspective  
Introduction to ESG  
Sustainability in the PEGylated Proteins Industry  
Understanding the ESG Data  
ESG Performance Analysis  
Concluding Remarks  
Chapter 6 Peptide Synthesis: Global Markets (BIO252A)  
Market Outlook  
Scope of Report  
Market Summary  
Peptide Therapeutics Market Overview  
Importance of Peptides  
Peptide Synthesis  
Trends in Peptide Therapeutics  
Market Dynamics  
Market Drivers  
Market Restraint  
Market Opportunities  
Emerging Technologies for Peptide Synthesis and Therapeutics Manufacturing  
Advances in SPPS in Aqueous Media  
Chemical Synthesis  
Peptide Drug Delivery  
Examples of New Developments, by Company  
Market Analysis, by Segment  
Global Market for Peptide Synthesis, by Peptide Type  
Synthetic Peptides  
Antimicrobial Peptides  
Hormonal Peptides  
Bioactive Peptides  
Collagen Peptides  
Other Products  
Global Market for Peptide Synthesis, by Application

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Peptide Therapeutics  
Cosmetics  
Nutraceuticals  
Other Applications  
Global Market for Peptide Synthesis, by Synthesis Type  
Solid-phase  
Solution-phase  
Hybrid-phase  
Global Market for Peptide Synthesis, by Region  
North America  
Europe  
Asia-Pacific  
Rest of the World  
Sustainability in the Peptide Synthesis Industry: ESG Perspective  
Importance of ESG among Peptide Therapeutics Manufacturers  
ESG Practices of Peptide Therapeutics Manufacturers  
BCC Research Viewpoint  
Chapter 7 Appendix  
Research Methodology  
Analyst's Credentials

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