

North America Protein Expression Market Report and Forecast 2025-2034

Market Report | 2025-07-29 | 250 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License \$3869.00
- Five User License \$4949.00
- Corporate License \$5949.00

Report description:

The North America protein expression market size was valued at USD 0.90 Billion in 2024, driven by the increasing emphasis on developing effective therapeutics for treating chronic diseases in the region. The market is expected to grow at a CAGR of 8.23% during the forecast period of 2025-2034, with the values likely to reach USD 1.98 Billion by 2034.

North America Protein Expression Market Analysis

Protein expression involves the synthesis, modification, and regulation of proteins in living organisms. The study of protein expression can help to determine the best treatment as well as its effectiveness in a patient. For instance, understanding protein expression in cancer cells can provide information about the cancer subtype, the optimal treatment plan, and its efficacy. The rising interest in personalized medicine is likely to propel the North America protein expression market growth in the coming years.

The market is witnessing increased demand for protein-based therapeutics, which can be attributed to the rise in the burden of chronic diseases in North America. According to the Centers for Disease Control and Prevention (CDC), 6 out of 10 Americans are affected by at least one chronic disease. These chronic diseases, including cancer, diabetes, and heart disease, are the leading drivers of death and disability in the region and are also responsible for substantial healthcare expenditure. The rising prevalence of chronic diseases is expected to directly augment the market demand as proteins are utilized in both the study as well as the treatment of such conditions.

The North America protein expression market demand is driven by the growing pipeline of biological medicines such as monoclonal antibodies, gene therapies, and vaccines. This expansion in the biologics market fuels the need for robust protein expression systems that are both flexible and efficient. To manufacture such complex expression systems, several key players are entering into partnerships to share resources and expertise. In July 2023, Ginkgo Bioworks (a United States-based biotechnology company) announced the completion of the pilot phase of their partnership with Novo Nordisk A/S to develop novel expression systems for pharmaceutical products. Through collaborative efforts, the companies achieved their first milestone which included

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

extensive modification and testing of a microbial expression system. The development of such engineered biological systems that can offer potential treatment options for patients with serious chronic diseases is anticipated to accelerate market growth.

One of the significant North America protein expression market trends is the increased advancements in protein expression technologies that allow scalable and cost-effective protein production and attract major investments from various sectors. In July 2023, Liberum Biotech Inc., a Toronto-based startup, secured USD 1.8 million in seed funding for its platform "protein synthesis as a service" to support the development of its synthetic protein production technology. The company plans to use the funds to increase its production capacity and expand its portfolio of available proteins which also include the production of therapeutics and enzymes. The launch of innovative cell-free and cell-based platforms for protein synthesis is expected to bolster the market share in the forecast period.

North America Protein Expression Market Segmentation

The report offers a detailed analysis of the market based on the following segments:

Breakup by Product

- Expression Vectors
- Competent Cells
- Reagents
- Instruments
- Services

Breakup by Application

- Industrial
- Research
- Therapeutic
- Others

Breakup by End User

- Academic Research
- Contract Research Organizations
- Pharmaceutical & Biotechnology Companies
- Others

Breakup by Region

- United States
- Canada

North America Protein Expression Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Thermo Fisher Scientific Inc.
- GenScript Biotech Corporation
- Agilent Technologies Inc.
- Danaher Corporation
- Bio-Rad Laboratories Inc.
- Promega Corporation
- New England Biolabs
- Becton, Dickinson and Company
- Merck KGaA

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Table of Contents:

- 1 Preface
- 1.1 Objectives of the Study
- 1.2 Key Assumptions
- 1.3 Report Coverage - Key Segmentation and Scope
- 1.4 Research Methodology
- 2 Executive Summary
- 3 North America Protein Expression Market Overview
- 3.1 North America Protein Expression Market Historical Value (2018-2024)
- 3.2 North America Protein Expression Market Forecast Value (2025-2034)
- 4 North America Protein Expression Market Landscape*
- 4.1 North America Neonatal Ventilators: Developers Landscape
- 4.1.1 Analysis by Year of Establishment
- 4.1.2 Analysis by Company Size
- 4.1.3 Analysis by Region
- 4.2 North America Neonatal Ventilators: Product Landscape
- 4.2.1 Analysis by Product
- 4.2.2 Analysis by Application
- 5 North America Protein Expression Market Dynamics
- 5.1 Market Drivers and Constraints
- 5.2 SWOT Analysis
- 5.2.1 Strengths
- 5.2.2 Weaknesses
- 5.2.3 Opportunities
- 5.2.4 Threats

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.3 Porter's Five Forces Model
 - 5.3.1 Bargaining Power of Suppliers
 - 5.3.2 Bargaining Power of Buyers
 - 5.3.3 Threat of New Entrants
 - 5.3.4 Threat of Substitutes
 - 5.3.5 Degree of Rivalry
- 5.4 Key Demand Indicators
- 5.5 Key Price Indicators
- 5.6 Industry Events, Initiatives, and Trends
- 5.7 Value Chain Analysis
- 6 North America Protein Expression Market Segmentation (218-2034)
 - 6.1 North America Protein Expression Market (2018-2034) by Product
 - 6.1.1 Market Overview
 - 6.1.2 Expression Vectors
 - 6.1.3 Competent Cells
 - 6.1.4 Reagents
 - 6.1.5 Instruments
 - 6.1.6 Services
 - 6.2 North America Protein Expression Market (2018-2034) by Application
 - 6.2.1 Market Overview
 - 6.2.2 Industrial
 - 6.2.3 Research
 - 6.2.4 Therapeutic
 - 6.2.5 Others
 - 6.3 North America Protein Expression Market (2018-2034) by System Type
 - 6.3.1 Market Overview
 - 6.3.2 Mammalian Cell Expression System
 - 6.3.3 Yeast Cell Expression System
 - 6.3.4 Insect Cell Expression System
 - 6.4 North America Protein Expression Market (2018-2034) by End User
 - 6.4.1 Market Overview
 - 6.4.2 Academic Research
 - 6.4.3 Contract Research Organizations
 - 6.4.4 Pharmaceutical & Biotechnology Companies
 - 6.4.5 Others
 - 6.5 North America Protein Expression Market (2018-2034) by Country
 - 6.5.1 Market Overview
 - 6.5.2 United States
 - 6.5.3 Canada
- 7 United States Protein Expression Market (218-2034)
 - 7.1 United States Protein Expression Market (2018-2034) by Product
 - 7.1.1 Market Overview
 - 7.1.2 Expression Vectors
 - 7.1.3 Competent Cells
 - 7.1.4 Reagents
 - 7.1.5 Instruments
 - 7.1.6 Services

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.2 United States Protein Expression Market (2018-2034) by Application
 - 7.2.1 Market Overview
 - 7.2.2 Industrial
 - 7.2.3 Research
 - 7.2.4 Therapeutic
 - 7.2.5 Others
- 7.3 United States Protein Expression Market (2018-2034) by System Type
 - 7.3.1 Market Overview
 - 7.3.2 Mammalian Cell Expression System
 - 7.3.3 Yeast Cell Expression System
 - 7.3.4 Insect Cell Expression System
- 7.4 United States Protein Expression Market (2018-2034) by End User
 - 7.4.1 Market Overview
 - 7.4.2 Academic Research
 - 7.4.3 Contract Research Organizations
 - 7.4.4 Pharmaceutical & Biotechnology Companies
 - 7.4.5 Others
- 8 Canada Protein Expression Market (2018-2034)
 - 8.1 Canada Protein Expression Market (2018-2034) by Product
 - 8.1.1 Market Overview
 - 8.1.2 Expression Vectors
 - 8.1.3 Competent Cells
 - 8.1.4 Reagents
 - 8.1.5 Instruments
 - 8.1.6 Services
 - 8.2 Canada Protein Expression Market (2018-2034) by Application
 - 8.2.1 Market Overview
 - 8.2.2 Industrial
 - 8.2.3 Research
 - 8.2.4 Therapeutic
 - 8.2.5 Others
 - 8.3 Canada Protein Expression Market (2018-2034) by System Type
 - 8.3.1 Market Overview
 - 8.3.2 Mammalian Cell Expression System
 - 8.3.3 Yeast Cell Expression System
 - 8.3.4 Insect Cell Expression System
 - 8.4 Canada Protein Expression Market (2018-2034) by End User
 - 8.4.1 Market Overview
 - 8.4.2 Academic Research
 - 8.4.3 Contract Research Organizations
 - 8.4.4 Pharmaceutical & Biotechnology Companies
 - 8.4.5 Others
- 9 Regulatory Framework
- 10 Patent Analysis
 - 10.1 Analysis by Type of Patent
 - 10.2 Analysis by Publication Year
 - 10.3 Analysis by Issuing Authority

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.4 Analysis by Patent Age
- 10.5 Analysis by CPC Analysis
- 10.6 Analysis by Patent Valuation
- 10.7 Analysis by Key Players
- 11 Grants Analysis
 - 11.1 Analysis by Year
 - 11.2 Analysis by Amount Awarded
 - 11.3 Analysis by Issuing Authority
 - 11.4 Analysis by Grant Application
 - 11.5 Analysis by Funding Institute
 - 11.6 Analysis by Departments
 - 11.7 Analysis by Recipient Organization
- 12 Funding and Investment Analysis
 - 12.1 Analysis by Funding Instances
 - 12.2 Analysis by Type of Funding
 - 12.3 Analysis by Funding Amount
 - 12.4 Analysis by Leading Players
 - 12.5 Analysis by Leading Investors
 - 12.6 Analysis by Geography
- 13 Partnership and Collaborations Analysis
 - 13.1 Analysis by Partnership Instances
 - 13.2 Analysis by Type of Partnership
 - 13.3 Analysis by Leading Players
 - 13.4 Analysis by Geography
- 14 Supplier Landscape
 - 14.1 Market Share by Top 5 Companies
 - 14.2 Thermo Fisher Scientific Inc.
 - 14.2.1 Financial Analysis
 - 14.2.2 Product Portfolio
 - 14.2.3 Demographic Reach and Achievements
 - 14.2.4 Mergers and Acquisitions
 - 14.2.5 Certifications
 - 14.3 GenScript Biotech Corporation
 - 14.3.1 Financial Analysis
 - 14.3.2 Product Portfolio
 - 14.3.3 Demographic Reach and Achievements
 - 14.3.4 Mergers and Acquisitions
 - 14.3.5 Certifications
 - 14.4 Agilent Technologies Inc.
 - 14.4.1 Financial Analysis
 - 14.4.2 Product Portfolio
 - 14.4.3 Demographic Reach and Achievements
 - 14.4.4 Mergers and Acquisitions
 - 14.4.5 Certifications
 - 14.5 Danaher Corporation
 - 14.5.1 Financial Analysis
 - 14.5.2 Product Portfolio

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.5.3 Demographic Reach and Achievements
- 14.5.4 Mergers and Acquisitions
- 14.5.5 Certifications
- 14.6 Bio-Rad Laboratories Inc.
- 14.6.1 Financial Analysis
- 14.6.2 Product Portfolio
- 14.6.3 Demographic Reach and Achievements
- 14.6.4 Mergers and Acquisitions
- 14.6.5 Certifications
- 14.7 Promega Corporation
- 14.7.1 Financial Analysis
- 14.7.2 Product Portfolio
- 14.7.3 Demographic Reach and Achievements
- 14.7.4 Mergers and Acquisitions
- 14.7.5 Certifications
- 14.8 New England Biolabs
- 14.8.1 Financial Analysis
- 14.8.2 Product Portfolio
- 14.8.3 Demographic Reach and Achievements
- 14.8.4 Mergers and Acquisitions
- 14.8.5 Certifications
- 14.9 Becton, Dickinson and Company
- 14.9.1 Financial Analysis
- 14.9.2 Product Portfolio
- 14.9.3 Demographic Reach and Achievements
- 14.9.4 Mergers and Acquisitions
- 14.9.5 Certifications
- 14.10 Merck KGaA
- 14.10.1 Financial Analysis
- 14.10.2 Product Portfolio
- 14.10.3 Demographic Reach and Achievements
- 14.10.4 Mergers and Acquisitions
- 14.10.5 Certifications
- 15 North America Protein Expression Market - Distribution Model (Additional Insight)
- 15.1 Overview
- 15.2 Potential Distributors
- 15.3 Key Parameters for Distribution Partner Assessment
- 16 Key Opinion Leaders (KOL) Insights (Additional Insight)
- 17 Company Competitiveness Analysis (Additional Insight)
- 17.1 Very Small Companies
- 17.2 Small Companies
- 17.3 Mid-Sized Companies
- 17.4 Large Companies
- 17.5 Very Large Companies
- 18 Payment Methods (Additional Insight)
- 18.1 Government Funded
- 18.2 Private Insurance

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

North America Protein Expression Market Report and Forecast 2025-2034

Market Report | 2025-07-29 | 250 pages | EMR Inc.

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$3869.00
	Five User License	\$4949.00
	Corporate License	\$5949.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-06-09"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com