

Global Trypsin Market Size study, By Source (Porcine, Bovine, Others), By Application (Biotechnology and Pharmaceutical Industry, Food Industry, Cosmetics and Personal Care, Waste Treatment, Others), By End-use (Research, Diagnostics, Industrial use), and Regional Forecasts 2022-2032

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Abstracts

Global Trypsin Market is valued at approximately USD 91.6 million in 2023 and is anticipated to grow with a healthy growth rate of more than 4.92% over the forecast period 2024-2032. Trypsin is a digestive enzyme produced in the pancreas that breaks down proteins into smaller peptides within the small intestine. It is secreted as the inactive precursor trypsinogen, which is activated by enter peptidase. These digestive enzyme plays a crucial role in nutrient absorption and regulate other digestive enzymes by converting them from their inactive forms to active states, ensuring efficient digestion. Additionally, the rising focus on advanced therapeutics are gaining attention in the Global Trypsin Market. Trypsin is crucial in cell culture processes to dissociate adherent cells from the surface of culture vessels. This step is essential for subculturing, which maintains and expands cell lines used in producing vaccines and therapeutic proteins. By enabling the controlled detachment and passage of cells, trypsin ensures the continuous growth and health of cell cultures. This is vital for large-scale production of vaccines, such as those for viral diseases, and therapeutic proteins, including monoclonal antibodies.

The Global Trypsin Market is driven by increasing demand for biopharmaceuticals and growing demand for processed foods across the world. Trypsin is essential in biopharmaceutical production processes, such as cell culture for maintaining and

expanding cell lines, and protein purification for ensuring product quality and consistency. Innovations in biotechnology and increased investments in pharmaceutical research further propel the trypsin market, highlighting its critical role in developing modern therapeutics. In addition, trypsin is used to improve the texture and flavor of various food products, as well as in protein hydrolysis to produce protein-rich food additives and supplements. The enzyme aids in breaking down proteins into peptides and amino acids, enhancing the nutritional value and digestibility of processed foods. However, specific requirements for drug approvals and risk of allergic reactions are going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Trypsin market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America was the largest regional market in terms of revenue owing to factors such as increasing focus on therapeutics solutions for colorectal cancer across the region. Many colorectal cancer therapies, including monoclonal antibodies and targeted biologics, rely on recombinant protein technology. Trypsin plays a crucial role in protein purification processes by breaking down fusion tags and facilitating the isolation of therapeutic proteins with high purity. Furthermore, the market in Asia Pacific is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Novozymes A/S
Agilent Technologies Inc
Thermo Fisher Scientific Inc
Sartorius AG
Promega Corporation
Bovogen Biologicals Pty Ltd
Zymetech ehf
BBI Solutions LLC
PromoCell GmbH
Ningbo Linzyme Biosciences Ltd

The detailed segments and sub-segment of the market are explained below:

By Source
Porcine
Bovine
Others

By Application

Biotechnology and Pharmaceutical Industry

Food Industry

Cosmetics and Personal Care

Waste Treatment

Others

By End-use

Research

Diagnostics

Industrial use

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL TRYPSIN MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
 - 1.3.1. Inclusion & Exclusion
 - 1.3.2. Limitations
 - 1.3.3. Supply Side Analysis
 - 1.3.3.1. Availability
 - 1.3.3.2. Infrastructure
 - 1.3.3.3. Regulatory Environment
 - 1.3.3.4. Market Competition
 - 1.3.3.5. Economic Viability (Consumer's Perspective)
 - 1.3.4. Demand Side Analysis
 - 1.3.4.1. Regulatory frameworks
 - 1.3.4.2. Technological Advancements
 - 1.3.4.3. Environmental Considerations
 - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Global Trypsin Market Size & Forecast (2022- 2032)
- 2.2. Regional Summary
- 2.3. Segmental Summary
 - 2.3.1. By Source
 - 2.3.2. By Application
 - 2.3.3. By End-use
- 2.4. Key Trends
- 2.5. Recession Impact
- 2.6. Analyst Recommendation & Conclusion

CHAPTER 3. GLOBAL TRYPSIN MARKET DYNAMICS

- 3.1. Market Drivers
- 3.2. Market Challenges
- 3.3. Market Opportunities

CHAPTER 4. GLOBAL TRYPSIN MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL TRYPSIN MARKET SIZE & FORECASTS BY SOURCE 2022-2032

- 5.1. Porcine
- 5.2. Bovine
- 5.3. Others

CHAPTER 6. GLOBAL TRYPSIN MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 6.1. Biotechnology and Pharmaceutical Industry
- 6.2. Food Industry

- 6.3. Cosmetics and Personal Care
- 6.4. Waste Treatment
- 6.5. Others

CHAPTER 7. GLOBAL TRYPSIN MARKET SIZE & FORECASTS BY END-USE 2022-2032

- 7.1. Research
- 7.2. Diagnostics
- 7.3. Industrial use

CHAPTER 8. GLOBAL TRYPSIN MARKET SIZE & FORECASTS BY REGION 2022-2032

- 8.1. North America Trypsin Market
 - 8.1.1. U.S. Trypsin Market
 - 8.1.1.1. Source breakdown size & forecasts, 2022-2032
 - 8.1.1.2. Application breakdown size & forecasts, 2022-2032
 - 8.1.1.3. End-use breakdown size & forecasts, 2022-2032
 - 8.1.2. Canada Trypsin Market
- 8.2. Europe Trypsin Market
 - 8.2.1. U.K. Trypsin Market
 - 8.2.2. Germany Trypsin Market
 - 8.2.3. France Trypsin Market
 - 8.2.4. Spain Trypsin Market
 - 8.2.5. Italy Trypsin Market
 - 8.2.6. Rest of Europe Trypsin Market
- 8.3. Asia-Pacific Trypsin Market
 - 8.3.1. China Trypsin Market
 - 8.3.2. India Trypsin Market
 - 8.3.3. Japan Trypsin Market
 - 8.3.4. Australia Trypsin Market
 - 8.3.5. South Korea Trypsin Market
 - 8.3.6. Rest of Asia Pacific Trypsin Market
- 8.4. Latin America Trypsin Market
 - 8.4.1. Brazil Trypsin Market
 - 8.4.2. Mexico Trypsin Market
 - 8.4.3. Rest of Latin America Trypsin Market
- 8.5. Middle East & Africa Trypsin Market

- 8.5.1. Saudi Arabia Trypsin Market
- 8.5.2. South Africa Trypsin Market
- 8.5.3. Rest of Middle East & Africa Trypsin Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Novozymes A/S
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Market Strategies
 - 9.3.2. Agilent Technologies Inc
 - 9.3.3. Thermo Fisher Scientific Inc
 - 9.3.4. Sartorius AG
 - 9.3.5. Promega Corporation
 - 9.3.6. Bovogen Biologicals Pty Ltd
 - 9.3.7. Zymetech ehf
 - 9.3.8. BBI Solutions LLC
 - 9.3.9. PromoCell GmbH
 - 9.3.10. Ningbo Linzyme Biosciences Ltd

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Trypsin market, report scope

TABLE 2. Global Trypsin market estimates & forecasts by Region 2022-2032 (USD Million)

TABLE 3. Global Trypsin market estimates & forecasts by Source 2022-2032 (USD Million)

TABLE 4. Global Trypsin market estimates & forecasts by Application 2022-2032 (USD Million)

TABLE 5. Global Trypsin market estimates & forecasts by End-use 2022-2032 (USD Million)

TABLE 6. Global Trypsin market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 7. Global Trypsin market by region, estimates & forecasts, 2022-2032 (USD Million)

TABLE 8. Global Trypsin market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 9. Global Trypsin market by region, estimates & forecasts, 2022-2032 (USD Million)

TABLE 10. Global Trypsin market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 11. Global Trypsin market by region, estimates & forecasts, 2022-2032 (USD Million)

TABLE 12. Global Trypsin market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 13. Global Trypsin market by region, estimates & forecasts, 2022-2032 (USD Million)

TABLE 14. Global Trypsin market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 15. Global Trypsin market by region, estimates & forecasts, 2022-2032 (USD Million)

TABLE 16. U.S. Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 17. U.S. Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 18. U.S. Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 19. Canada Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 20. Canada Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 21. Canada Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 22. UK Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 23. UK Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 24. UK Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 25. Germany Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 26. Germany Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 27. Germany Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 28. France Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 29. France Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 30. France Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 31. Italy Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 32. Italy Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 33. Italy Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 34. Spain Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 35. Spain Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 36. Spain Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 37. RoE Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 38. RoE Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 39. RoE Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 40. China Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 41. China Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 42. China Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

- TABLE 43. India Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 44. India Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 45. India Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 46. Japan Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 47. Japan Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 48. Japan Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 49. Australia Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 50. Australia Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 51. Australia Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 52. South Korea Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 53. South Korea Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 54. South Korea Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 55.
- TABLE 56. RoAPAC Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 57. RoAPAC Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 58. RoAPAC Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 59. Brazil Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 60. Brazil Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 61. Brazil Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 62. Mexico Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 63. Mexico Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 64. Mexico Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)
- TABLE 65. RoLA Trypsin market estimates & forecasts, 2022-2032 (USD Million)
- TABLE 66. RoLA Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 67. RoLA Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 68. Saudi Arabia Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 69. Saudi Arabia Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 70. Saudi Arabia Trypsin market estimates & forecasts, 2022-2032 (USD Million)

TABLE 71. South Africa Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 72.

TABLE 73. South Africa Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 74. South Africa Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 75. RoMEA Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 76. RoMEA Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 77. RoMEA Trypsin market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 78. List of secondary sources, used in the study of Global Trypsin Market.

TABLE 79. List of primary sources, used in the study of Global Trypsin Market.

TABLE 80. Years considered for the study.

TABLE 81. Exchange rates considered.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Trypsin market, research methodology
- FIG 2. Global Trypsin market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Trypsin market, key trends 2023
- FIG 5. Global Trypsin market, growth prospects 2022-2032
- FIG 6. Global Trypsin market, porters 5 force model
- FIG 7. Global Trypsin market, pestel analysis
- FIG 8. Global Trypsin market, value chain analysis
- FIG 9. Global Trypsin market by segment, 2022 & 2032 (USD Million)
- FIG 10. Global Trypsin market by segment, 2022 & 2032 (USD Million)
- FIG 11. Global Trypsin market by segment, 2022 & 2032 (USD Million)
- FIG 12. Global Trypsin market by segment, 2022 & 2032 (USD Million)
- FIG 13. Global Trypsin market by segment, 2022 & 2032 (USD Million)
- FIG 14. Global Trypsin market, regional snapshot 2022 & 2032
- FIG 15. North America Trypsin market 2022 & 2032 (USD Million)
- FIG 16. Europe Trypsin market 2022 & 2032 (USD Million)
- FIG 17. Asia pacific Trypsin market 2022 & 2032 (USD Million)
- FIG 18. Latin America Trypsin market 2022 & 2032 (USD Million)
- FIG 19. Middle East & Africa Trypsin market 2022 & 2032 (USD Million)
- FIG 20. Global Trypsin market, company market share analysis (2023)

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