

Beta Thalassemia Testing Market – Global Industry Size, Share, Trends, Opportunity, & Forecast, Segmented By Product (Kits, Consumables), By Technology (Prenatal Diagnosis, Complete Blood Count, DNA Testing, Others), By Type (Thalassemia Major, Thalassemia Intermedia), By End-User (Hospitals & Specialty Clinics, Diagnostics Centers, Others), By Region & Competition, 2020-2030F

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Abstracts

Global Beta Thalassemia Testing Market was valued at USD 604.95 million in 2024 and is projected to demonstrate strong growth throughout the forecast period, expanding at a compound annual growth rate (CAGR) of 9.28% through 2030.

This market is experiencing significant momentum, fueled by the increasing global prevalence of beta thalassemia and the growing emphasis on early disease detection and prevention. With millions of carriers and tens of thousands of new cases diagnosed each year, healthcare systems worldwide are prioritizing carrier screening, prenatal diagnostics, and newborn testing programs to mitigate disease transmission.

The rising demand for genetic risk assessment is accelerating the adoption of advanced molecular diagnostic tools, which are enhancing the accuracy and efficiency of early diagnosis and improving long-term disease management. Technological advancements—such as next-generation sequencing (NGS), polymerase chain reaction (PCR)-based diagnostics, and non-invasive prenatal testing (NIPT)—are making testing more accessible, efficient, and cost-effective, particularly in regions with a high disease burden.

Key Market Drivers

Rising Global Prevalence of Beta Thalassemia

The growing global incidence of beta thalassemia is a primary catalyst for the market's expansion. Approximately 1.5% of the global population carries the β -thalassemia gene mutation, with higher prevalence observed in the Mediterranean, Middle East, South Asia, and Southeast Asia. The disorder affects an estimated 80 to 90 million individuals, driving significant demand for genetic testing, prenatal diagnostics, and carrier screening in these high-risk regions.

Each year, approximately 60,000 infants are born with β -thalassemia major, the majority in developing nations where access to diagnostic and therapeutic options is limited. Countries including India, Pakistan, Bangladesh, and Iran report particularly high prevalence rates, prompting governments and healthcare institutions to implement mandatory screening programs and improve diagnostic infrastructure.

Furthermore, the global migration of at-risk populations is expanding the geographic scope of beta thalassemia testing, increasing demand in regions such as Europe and North America. As the disease burden intensifies, health authorities are focusing on comprehensive testing strategies, thereby propelling the growth of specialized diagnostic markets.

Key Market Challenges

Limited Access to Healthcare in Low-Resource Settings

Despite rising demand, the beta thalassemia testing market faces constraints in developing and underserved regions, where healthcare infrastructure is often underdeveloped. A lack of medical facilities, trained personnel, and financial resources hampers the early diagnosis and management of beta thalassemia.

These limitations present significant barriers to market penetration, particularly in rural areas and low-income countries where the disease is most prevalent. Expanding diagnostic services in such environments requires considerable investment in infrastructure, education, and healthcare delivery systems. Market participants may face logistical and operational challenges when establishing testing facilities in these regions.

Key Market Trends

Increased Adoption of Non-Invasive Prenatal Testing (NIPT)

A transformative trend within the beta thalassemia testing market is the rapid adoption of non-invasive prenatal testing (NIPT). By analyzing fetal DNA from a maternal blood sample, NIPT offers a safe, accurate, and early method of detecting beta thalassemia without the risks associated with invasive procedures such as amniocentesis or chorionic villus sampling (CVS).

NIPT provides several advantages: high diagnostic precision, minimal risk to the fetus, and greater convenience for expectant parents. Growing awareness around early diagnosis and the availability of safer prenatal testing options is driving the widespread acceptance of NIPT.

Technological advancements in genomic sequencing and declining testing costs are making NIPT increasingly accessible to broader patient populations. As a result, diagnostic laboratories and healthcare providers are investing in NIPT infrastructure to meet rising demand and expand their prenatal screening services. This trend is expected to significantly boost market growth, particularly in regions with increasing emphasis on maternal-fetal health.

Key Market Players

MedGenome

3B BlackBio Biotech India Limited

Bio-Rad Laboratories Inc.

ViennaLab Diagnostics

Thermo Fisher Scientific Inc.

PerkinElmer Inc.

BioMedomics Inc.

Asper Biogene

Tosoh Bioscience Inc

Report Scope:

In this report, the Global Beta Thalassemia Testing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Beta Thalassemia Testing Market, By Product:

Kits

Consumables

Beta Thalassemia Testing Market, By Technology:

Prenatal Diagnosis

Complete Blood Count

DNA Testing

Others

Beta Thalassemia Testing Market, By Type:

Thalassemia Major

Thalassemia Intermedia

Beta Thalassemia Testing Market, By End-User:

Hospitals & Specialty Clinics

Diagnostics Centers

Others

Beta Thalassemia Testing Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Beta Thalassemia Testing Market.

Available Customizations:

Global Beta Thalassemia Testing market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. BETA THALASSEMIA TESTING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product (Kits, Consumables)
 - 5.2.2. By Technology (Prenatal Diagnosis, Complete Blood Count, DNA Testing, Others)
 - 5.2.3. By Type (Thalassemia Major, Thalassemia Intermedia)

- 5.2.4. By End-User (Hospitals & Specialty Clinics, Diagnostics Centers, Others)
- 5.2.5. By Region
- 5.2.6. By Company (2024)
- 5.3. Market Map

6. NORTH AMERICA BETA THALASSEMIA TESTING MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product
 - 6.2.2. By Technology
 - 6.2.3. By Type
 - 6.2.4. By End User
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Beta Thalassemia Testing Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Product
 - 6.3.1.2.2. By Technology
 - 6.3.1.2.3. By Type
 - 6.3.1.2.4. By End User
 - 6.3.2. Canada Beta Thalassemia Testing Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Product
 - 6.3.2.2.2. By Technology
 - 6.3.2.2.3. By Type
 - 6.3.2.2.4. By End User
 - 6.3.3. Mexico Beta Thalassemia Testing Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product
 - 6.3.3.2.2. By Technology
 - 6.3.3.2.3. By Type

6.3.3.2.4. By End User

7. EUROPE BETA THALASSEMIA TESTING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Product

7.2.2. By Technology

7.2.3. By Type

7.2.4. By End User

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Beta Thalassemia Testing Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Product

7.3.1.2.2. By Technology

7.3.1.2.3. By Type

7.3.1.2.4. By End User

7.3.2. United Kingdom Beta Thalassemia Testing Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Product

7.3.2.2.2. By Technology

7.3.2.2.3. By Type

7.3.2.2.4. By End User

7.3.3. Italy Beta Thalassemia Testing Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Product

7.3.3.2.2. By Technology

7.3.3.2.3. By Type

7.3.3.2.4. By End User

7.3.4. France Beta Thalassemia Testing Market Outlook

7.3.4.1. Market Size & Forecast

- 7.3.4.1.1. By Value
- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Product
 - 7.3.4.2.2. By Technology
 - 7.3.4.2.3. By Type
 - 7.3.4.2.4. By End User
- 7.3.5. Spain Beta Thalassemia Testing Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Product
 - 7.3.5.2.2. By Technology
 - 7.3.5.2.3. By Type
 - 7.3.5.2.4. By End User

8. ASIA-PACIFIC BETA THALASSEMIA TESTING MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Product
 - 8.2.2. By Technology
 - 8.2.3. By Type
 - 8.2.4. By End User
 - 8.2.5. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Beta Thalassemia Testing Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product
 - 8.3.1.2.2. By Technology
 - 8.3.1.2.3. By Type
 - 8.3.1.2.4. By End User
 - 8.3.2. India Beta Thalassemia Testing Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product

- 8.3.2.2.2. By Technology
- 8.3.2.2.3. By Type
- 8.3.2.2.4. By End User
- 8.3.3. Japan Beta Thalassemia Testing Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product
 - 8.3.3.2.2. By Technology
 - 8.3.3.2.3. By Type
 - 8.3.3.2.4. By End User
- 8.3.4. South Korea Beta Thalassemia Testing Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Product
 - 8.3.4.2.2. By Technology
 - 8.3.4.2.3. By Type
 - 8.3.4.2.4. By End User
- 8.3.5. Australia Beta Thalassemia Testing Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Product
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By Type
 - 8.3.5.2.4. By End User

9. SOUTH AMERICA BETA THALASSEMIA TESTING MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product
 - 9.2.2. By Technology
 - 9.2.3. By Type
 - 9.2.4. By End User
 - 9.2.5. By Country
- 9.3. South America: Country Analysis

9.3.1. Brazil Beta Thalassemia Testing Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Product

9.3.1.2.2. By Technology

9.3.1.2.3. By Type

9.3.1.2.4. By End User

9.3.2. Argentina Beta Thalassemia Testing Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Product

9.3.2.2.2. By Technology

9.3.2.2.3. By Type

9.3.2.2.4. By End User

9.3.3. Colombia Beta Thalassemia Testing Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Product

9.3.3.2.2. By Technology

9.3.3.2.3. By Type

9.3.3.2.4. By End User

10. MIDDLE EAST AND AFRICA BETA THALASSEMIA TESTING MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Product

10.2.2. By Technology

10.2.3. By Type

10.2.4. By End User

10.2.5. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Beta Thalassemia Testing Market Outlook

10.3.1.1. Market Size & Forecast

- 10.3.1.1.1. By Value
- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Product
 - 10.3.1.2.2. By Technology
 - 10.3.1.2.3. By Type
 - 10.3.1.2.4. By End User
- 10.3.2. Saudi Arabia Beta Thalassemia Testing Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Product
 - 10.3.2.2.2. By Technology
 - 10.3.2.2.3. By Type
 - 10.3.2.2.4. By End User
- 10.3.3. UAE Beta Thalassemia Testing Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Product
 - 10.3.3.2.2. By Technology
 - 10.3.3.2.3. By Type
 - 10.3.3.2.4. By End User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Recent Developments
- 12.2. Product Launches
- 12.3. Mergers & Acquisitions

13. GLOBAL BETA THALASSEMIA TESTING MARKET: SWOT ANALYSIS

14. COMPETITIVE LANDSCAPE

- 14.1. MedGenome

- 14.1.1. Business Overview
- 14.1.2. Product & Service Offerings
- 14.1.3. Recent Developments
- 14.1.4. Financials (If Listed)
- 14.1.5. Key Personnel
- 14.1.6. SWOT Analysis
- 14.2. 3B BlackBio Biotech India Limited
- 14.3. Bio-Rad Laboratories Inc.
- 14.4. ViennaLab Diagnostics
- 14.5. Thermo Fisher Scientific Inc.
- 14.6. PerkinElmer Inc.
- 14.7. BioMedomics Inc.
- 14.8. Asper Biogene
- 14.9. Tosoh Bioscience Inc.

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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