

Carrier Screening Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2017-2027 Segmented By Type (Expanded Carrier Screening v/s Targeted Cancer Screening), By Screening Type (Prenatal Carrier Testing v/s Preconception Carrier Screening), By Technology (Next Generation Sequencing, Polymerase Chain Reaction, Microarrays, Others), By Indication (Cystic Fibrosis, Down's Syndrome, Thalassemia, Tay-Sachs Disease, Huntington's Disease, Sickle Cell Anemia, Others), By End User (Hospitals & Clinics, Reference Laboratories, Others), By Company, and By Region

<https://marketpublishers.com/r/CAB0CA661415EN.html>

Date: June 2023

Pages: 118

Price: US\$ 4,900.00 (Single User License)

ID: CAB0CA661415EN

Abstracts

The global carrier screening market is anticipated to observe impressive growth during the forecast period 2023-2027. The major factors include increasing occurrences of genetic conditions, rising emphasis on early detection and prevention, and technological developments in the field of genomics that are fueling the growth of the market. Genetic conditions are diseases caused due to mutations in the normal DNA sequence. Carrier screening is a kind of test that helps to know the risk of having a child with a genetic disorder. It determines whether a healthy person contains the recessive gene of genetic diseases such as sickle cell disease, cystic fibrosis, and others. The other factors supporting the market's growth are rising investments in research and developments activities by the government, rise in numerous releases and approvals of new carrier screening tests, increasing birth rate across the globe, rising focus on personalized

medicine, growing awareness of carrier screening among the population, increasing maternal age, availability of mass genetic testing programs, and the high incidence of chromosomal disorders.

Rising Prevalence of Genetic Diseases

The rising incidences of genetic disorders and fetal chromosomal anomalies due to mutation in genes or chromosomes are bolstering the growth of the market globally. For instance, in the U.S., genetic diseases are the primary cause of newborn deaths, accounting for nearly 20% of annual infant mortality. Genetic diseases such as cystic fibrosis, Tay-Sachs disease, and sickle cell anemia occur due to inheritable genetic conditions present in parents, which may get inherited by the offspring. According to the World Health Organization (WHO), in 2019, about 2 to 5% of infants had genetic diseases or chromosomal abnormalities. Owing to the increasing occurrences of disabilities in newborns, the surge in demand for prenatal testing is propelling the growth of the market.

Rising Emphasis on Early Detection and Prevention of Complex Genetic Disorders

In recent years, people have become more aware of genetic disorders, which enables them to plan and take better care of their babies. The growing inclination among urban parents to delay childbearing and the higher average age of mothers lead to pregnancy complications, which is a contributing factor to facilitating the growth of the market. Early detection helps couples to know the risk of having a child with genetic diseases or disorders in an early stage of pregnancy. Thus, the rising focus on early detection and prevention of complex genetic disorders is fueling the growth of the market globally. Various initiatives are taken by government and non-government organizations for early carrier screening. For instance, in 2018, “Step One Newborn Screening” was introduced by the Dubai health authority.

Technological Advancements fuel the Market Growth.

The rise in the adoption of advanced technology in the field of genomics sector is augmenting the growth of the market. The testing techniques are becoming more reliable and convenient because of technological advancements in carrier screening methods. For instance, in 2022, Thermo Fisher Scientific Inc., an American supplier of scientific products, announced the launch of an NGS-based test kit, which is a type of carrier screening approach in single solution that assists in scanning genetic disorders, including gene expression.

Market Segmentation

The global carrier screening market is segmented into type, screening type, technology, indication, end user, and company. Based on type, the market is divided into expanded carrier screening and targeted cancer screening. Based on screening type, the market is divided into prenatal carrier testing and preconception carrier screening. Based on technology, the market is divided into next-generation sequencing, polymerase chain reaction, microarrays, and others. Based on indication, the market is divided into cystic fibrosis, down's syndrome, thalassemia, tay sachs disease, Huntington's disease, sickle cell anemia, and others. Based on end-user, the market is divided into hospitals & clinics, reference laboratories, and others. In terms of country, the United States is expected to be a lucrative market in the forecast period due to the increasing incidences of genetic conditions and technological advancements in the country.

Market Players

Eurofins Scientific, Inc., Fulgent Genetics, Inc., CENTOGENE N.V., Invitae Corporation, Illumina, Inc., Gene by Gene, Ltd., Laboratory Corporation of America Holdings, Natera, Inc., Myriad Genetics, Inc., and Quest Diagnostics, Inc are some of the leading companies operating in the market.

Report Scope:

In this report, global carrier screening market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Carrier Screening Market, By Type:

Expanded Carrier Screening

Targeted Cancer Screening

Carrier Screening Market, By Screening Type:

Prenatal Carrier Testing

Preconception Carrier Screening

Carrier Screening Market, By Technology:

Next-Generation Sequencing

Polymerase Chain Reaction

Microarrays

Others

Carrier Screening Market, By Indication:

Cystic Fibrosis

Down's Syndrome

Thalassemia

Tay-Sachs Disease

Huntington's Disease

Sickle Cell Anemia

Others

Carrier Screening Market, By End User:

Hospitals & Clinics

Reference Laboratories

Others

Carrier Screening Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

Australia

South Korea

Europe & CIS

Germany

France

United Kingdom

Spain

Italy

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Carrier Screening Market

Available Customizations:

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

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL CARRIER SCREENING MARKET

5. VOICE OF CUSTOMER

6. GLOBAL CARRIER SCREENING MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type (Expanded Carrier Screening v/s Targeted Cancer Screening)

6.2.2. By Screening Type (Prenatal Carrier Testing v/s Preconception Carrier Screening)

6.2.3. By Technology (Next Generation Sequencing, Polymerase Chain Reaction, Microarrays, Others)

6.2.4. By Indication (Cystic Fibrosis, Down's Syndrome, Thalassemia, Tay-Sachs Disease, Huntington's Disease, Sickle Cell Anemia, Others)

6.2.5. By End User (Hospitals & Clinics, Reference Laboratories, Others)

6.2.6. By Region

6.2.7. By Company (2021)

6.3. Market Map

7. NORTH AMERICA CARRIER SCREENING MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Type

7.2.2. By Screening Type

7.2.3. By Technology

7.2.4. By Indication

7.2.5. By End User

7.2.6. By Country

7.3. North America: Country Analysis

7.3.1. United States Carrier Screening 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 Type

7.3.1.2.2. By Screening Type

7.3.1.2.3. By Technology

7.3.1.2.4. By Indication

7.3.1.2.5. By End User

7.3.2. Canada Carrier Screening 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 Type

7.3.2.2.2. By Screening Type

7.3.2.2.3. By Technology

7.3.2.2.4. By Indication

7.3.2.2.5. By End User

7.3.3. Mexico Carrier Screening 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 Type

7.3.3.2.2. By Screening Type

7.3.3.2.3. By Technology

7.3.3.2.4. By Indication

7.3.3.2.5. By End User

8. EUROPE CARRIER SCREENING MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Type

8.2.2. By Screening Type

8.2.3. By Technology

8.2.4. By Indication

8.2.5. By End User

8.2.6. By Country

8.3. Europe: Country Analysis

8.3.1. France Carrier Screening 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 Type

8.3.1.2.2. By Screening Type

8.3.1.2.3. By Technology

8.3.1.2.4. By Indication

8.3.1.2.5. By End User

8.3.2. Germany Carrier Screening 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 Type

8.3.2.2.2. By Screening Type

8.3.2.2.3. By Technology

8.3.2.2.4. By Indication

8.3.2.2.5. By End User

8.3.3. United Kingdom Carrier Screening 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 Type

8.3.3.2.2. By Screening Type

8.3.3.2.3. By Technology

8.3.3.2.4. By Indication

8.3.3.2.5. By End User

8.3.4. Italy Carrier Screening 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 Type

8.3.4.2.2. By Screening Type

8.3.4.2.3. By Technology

8.3.4.2.4. By Indication

8.3.4.2.5. By End User

8.3.5. Spain Carrier Screening 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 Type

8.3.5.2.2. By Screening Type

8.3.5.2.3. By Technology

8.3.5.2.4. By Indication

8.3.5.2.5. By End User

9. ASIA-PACIFIC CARRIER SCREENING MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Type

9.2.2. By Screening Type

9.2.3. By Technology

9.2.4. By Indication

9.2.5. By End User

9.2.6. By Country

9.3. Asia-Pacific: Country Analysis

9.3.1. China Carrier Screening 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 Type

9.3.1.2.2. By Screening Type

9.3.1.2.3. By Technology

9.3.1.2.4. By Indication

9.3.1.2.5. By End User

9.3.2. India Carrier Screening 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 Type

9.3.2.2.2. By Screening Type

9.3.2.2.3. By Technology

9.3.2.2.4. By Indication

- 9.3.2.2.5. By End User
- 9.3.3. Japan Carrier Screening 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 Type
 - 9.3.3.2.2. By Screening Type
 - 9.3.3.2.3. By Technology
 - 9.3.3.2.4. By Indication
 - 9.3.3.2.5. By End User
- 9.3.4. South Korea Carrier Screening Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Type
 - 9.3.4.2.2. By Screening Type
 - 9.3.4.2.3. By Technology
 - 9.3.4.2.4. By Indication
 - 9.3.4.2.5. By End User
- 9.3.5. Australia Carrier Screening Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Type
 - 9.3.5.2.2. By Screening Type
 - 9.3.5.2.3. By Technology
 - 9.3.5.2.4. By Indication
 - 9.3.5.2.5. By End User

10. SOUTH AMERICA CARRIER SCREENING MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Type
 - 10.2.2. By Screening Type
 - 10.2.3. By Technology
 - 10.2.4. By Indication
 - 10.2.5. By End User

- 10.2.6. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Carrier Screening 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 Type
 - 10.3.1.2.2. By Screening Type
 - 10.3.1.2.3. By Technology
 - 10.3.1.2.4. By Indication
 - 10.3.1.2.5. By End User
 - 10.3.2. Argentina Carrier Screening 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 Type
 - 10.3.2.2.2. By Screening Type
 - 10.3.2.2.3. By Technology
 - 10.3.2.2.4. By Indication
 - 10.3.2.2.5. By End User
 - 10.3.3. Colombia Carrier Screening 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 Type
 - 10.3.3.2.2. By Screening Type
 - 10.3.3.2.3. By Technology
 - 10.3.3.2.4. By Indication
 - 10.3.3.2.5. By End User

11. MIDDLE EAST AND AFRICA CARRIER SCREENING MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Type
 - 11.2.2. By Screening Type
 - 11.2.3. By Technology
 - 11.2.4. By Indication

- 11.2.5. By End User
- 11.2.6. By Country
- 11.3. MEA: Country Analysis
 - 11.3.1. South Africa Carrier Screening Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Type
 - 11.3.1.2.2. By Screening Type
 - 11.3.1.2.3. By Technology
 - 11.3.1.2.4. By Indication
 - 11.3.1.2.5. By End User
 - 11.3.2. Saudi Arabia Carrier Screening Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Type
 - 11.3.2.2.2. By Screening Type
 - 11.3.2.2.3. By Technology
 - 11.3.2.2.4. By Indication
 - 11.3.2.2.5. By End User
 - 11.3.3. UAE Carrier Screening Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Type
 - 11.3.3.2.2. By Screening Type
 - 11.3.3.2.3. By Technology
 - 11.3.3.2.4. By Indication
 - 11.3.3.2.5. By End User

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

14. COMPETITIVE LANDSCAPE (INCLUSIVE OF SWOT ANALYSIS)

- 14.1. Eurofins Scientific, Inc.
- 14.2. Fulgent Genetics, Inc.
- 14.3. CENTOGENE N.V.
- 14.4. Invitae Corporation
- 14.5. Illumina, Inc.
- 14.6. Gene by Gene, Ltd.
- 14.7. Laboratory Corporation of America Holdings
- 14.8. Natera, Inc.
- 14.9. Myriad Genetics, Inc.
- 14.10. Quest Diagnostics, Inc.

15. STRATEGIC RECOMMENDATIONS

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