

Carrier Screening Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global carrier screening market size reached US\$ 1.5 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 2.9 Billion by 2027, exhibiting a growth rate (CAGR) of 11.4% during 2022-2027.

Carrier screening is a genetic testing technique used for the identification abnormal genes in fetuses that can cause autosomal recessive diseases. It is a predictive and pre-symptomatic testing solution used by pregnant individuals and couples to analyze the risks of their child inheriting genetic disorders from the parents. It involves testing a sample of saliva, blood or cheek tissue to detect the presence of an abnormal gene for disorders, such as cystic fibrosis, sickle cell anemia and Tay-Sachs disease. These samples are screened through molecular and biochemical processes based on deoxyribonucleic acid (DNA) sequencing, polymerase chain reaction (PCR) and microarray technologies. They are used for expanded, customized panel, predesigned panel and targeted disease carrier screening for various pulmonary, hematological and neurological disorders.

Carrier Screening Market Trends:

The increasing prevalence of fetal chromosomal abnormalities and genetic disorders across the globe is one of the key factors driving the growth of the market. Moreover, the rising consciousness among the masses regarding the benefits of early detection and diagnosis of diseases is providing a thrust to the market growth. In line with this, molecular screening tests are widely conducted to identify DNA mutations in the genetic codes and detect the mutations that can cause heart defects, pre-leukemia, hearing defects and down syndrome. Carrier screening also aids in providing adequate prenatal and reproductive care, which facilitates the proper management of heritable diseases.

Additionally, various technological advancements, such as the development of next-generation sequencing (NGS) techniques for genetic disease screening, are also favoring the market growth. Other factors, including extensive research and development (R&D) activities in the field of biotechnology and bioinformatics, along with significant growth in the medical infrastructure, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global carrier screening market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type, medical condition, technology and end user.

Breakup by Type:

- Expanded Carrier Screening
- Customized Panel Testing
- Predesigned Panel Testing
- Targeted Disease Carrier Screening

Breakup by Medical Condition:

- Pulmonary Conditions
- Hematological Conditions
- Neurological Conditions
- Others

Breakup by Technology:

- DNA Sequencing
- Polymerase Chain Reaction
- Microarrays
- Others

Breakup by End User:

- Hospitals and Clinics
- Reference Laboratories
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Fulgent Genetics, Gene By Gene Ltd. (MyDNA), Illumina Inc., Invitae Corporation, MedGenome Labs Ltd., Myriad Genetics Inc., Natera Inc., OPKO Health Inc., Quest Diagnostics, Sema4 and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report:

How has the global carrier screening market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global carrier screening market?

What are the key regional markets?

- What is the breakup of the market based on the type?
- What is the breakup of the market based on the medical condition?
- What is the breakup of the market based on the technology?
- What is the breakup of the market based on the end user?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global carrier screening market and who are the key players?
- What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CARRIER SCREENING MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Expanded Carrier Screening
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Customized Panel Testing
 - 6.1.2.2 Predesigned Panel Testing
 - 6.1.3 Market Forecast
- 6.2 Targeted Disease Carrier Screening

- 6.2.1 Market Trends
- 6.2.2 Market Forecast

7 MARKET BREAKUP BY MEDICAL CONDITION

- 7.1 Pulmonary Conditions
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Hematological Conditions
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Neurological Conditions
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY TECHNOLOGY

- 8.1 DNA Sequencing
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Polymerase Chain Reaction
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Microarrays
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Others
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast

9 MARKET BREAKUP BY END USER

- 9.1 Hospitals and Clinics
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Reference Laboratories

- 9.2.1 Market Trends
- 9.2.2 Market Forecast
- 9.3 Others
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
 - 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
 - 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
 - 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany

- 10.3.1.1 Market Trends
- 10.3.1.2 Market Forecast
- 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
- 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

15.1 Market Structure

15.2 Key Players

15.3 Profiles of Key Players

15.3.1 Fulgent Genetics

15.3.1.1 Company Overview

15.3.1.2 Product Portfolio

15.3.1.3 Financials

15.3.2 Gene By Gene Ltd. (MyDNA)

15.3.2.1 Company Overview

15.3.2.2 Product Portfolio

15.3.3 Illumina Inc.

15.3.3.1 Company Overview

15.3.3.2 Product Portfolio

15.3.3.3 Financials

15.3.3.4 SWOT Analysis

15.3.4 Invitae Corporation

15.3.4.1 Company Overview

15.3.4.2 Product Portfolio

15.3.4.3 Financials

15.3.5 MedGenome Labs Ltd.

- 15.3.5.1 Company Overview
- 15.3.5.2 Product Portfolio
- 15.3.6 Myriad Genetics Inc.
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
- 15.3.7 Natera Inc.
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
- 15.3.8 OPKO Health Inc.
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
- 15.3.9 Quest Diagnostics
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
- 15.3.10 Sema4
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
- 15.3.11 Thermo Fisher Scientific Inc.
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
 - 15.3.11.3 Financials
 - 15.3.11.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Carrier Screening Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Carrier Screening Market Forecast: Breakup by Type (in Million US\$), 2022-2027

Table 3: Global: Carrier Screening Market Forecast: Breakup by Medical Condition (in Million US\$), 2022-2027

Table 4: Global: Carrier Screening Market Forecast: Breakup by Technology (in Million US\$), 2022-2027

Table 5: Global: Carrier Screening Market Forecast: Breakup by End User (in Million US\$), 2022-2027

Table 6: Global: Carrier Screening Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Carrier Screening Market: Competitive Structure

Table 8: Global: Carrier Screening Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Carrier Screening Market: Major Drivers and Challenges

Figure 2: Global: Carrier Screening Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Carrier Screening Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 4: Global: Carrier Screening Market: Breakup by Type (in %), 2021

Figure 5: Global: Carrier Screening Market: Breakup by Medical Condition (in %), 2021

Figure 6: Global: Carrier Screening Market: Breakup by Technology (in %), 2021

Figure 7: Global: Carrier Screening Market: Breakup by End User (in %), 2021

Figure 8: Global: Carrier Screening Market: Breakup by Region (in %), 2021

Figure 9: Global: Carrier Screening (Expanded Carrier Screening) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Carrier Screening (Expanded Carrier Screening) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Carrier Screening (Targeted Disease Carrier Screening) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Carrier Screening (Targeted Disease Carrier Screening) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Carrier Screening (Pulmonary Conditions) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Carrier Screening (Pulmonary Conditions) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Carrier Screening (Hematological Conditions) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Carrier Screening (Hematological Conditions) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Carrier Screening (Neurological Conditions) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Carrier Screening (Neurological Conditions) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Carrier Screening (Other Medical Conditions) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Carrier Screening (Other Medical Conditions) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Carrier Screening (DNA Sequencing) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Carrier Screening (DNA Sequencing) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Global: Carrier Screening (Polymerase Chain Reaction) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Carrier Screening (Polymerase Chain Reaction) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Carrier Screening (Microarrays) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Carrier Screening (Microarrays) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Carrier Screening (Other Technologies) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Carrier Screening (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Carrier Screening (Hospitals and Clinics) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Carrier Screening (Hospitals and Clinics) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Carrier Screening (Reference Laboratories) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Carrier Screening (Reference Laboratories) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Carrier Screening (Other End Users) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Carrier Screening (Other End Users) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: North America: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: North America: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: United States: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: United States: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Canada: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Canada: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Asia-Pacific: Carrier Screening Market: Sales Value (in Million US\$), 2016 &

2021

Figure 42: Asia-Pacific: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: China: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: China: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Japan: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Japan: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: India: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: India: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: South Korea: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: South Korea: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: Australia: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: Australia: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: Indonesia: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: Indonesia: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Others: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Others: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Europe: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Europe: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: Germany: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: Germany: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: France: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: France: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: United Kingdom: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: United Kingdom: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Italy: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Italy: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Spain: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Spain: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Russia: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Russia: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: Others: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: Others: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: Latin America: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: Latin America: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Brazil: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Brazil: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Mexico: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 78: Mexico: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 79: Others: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 80: Others: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 81: Middle East and Africa: Carrier Screening Market: Sales Value (in Million US\$), 2016 & 2021

Figure 82: Middle East and Africa: Carrier Screening Market: Breakup by Country (in %), 2021

Figure 83: Middle East and Africa: Carrier Screening Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 84: Global: Carrier Screening Industry: SWOT Analysis

Figure 85: Global: Carrier Screening Industry: Value Chain Analysis

Figure 86: Global: Carrier Screening Industry: Porter's Five Forces Analysis

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