

Global High Throughput Screening Market Size study, by Products and Services (Consumables, Instruments, Liquid Handling Systems, Others, Software and Services), by Technology (Cell-based Assays, 2D Cell Culture, 3D Cell Culture, Reporter based Assays, Perfusion Cell Culture, Lab-on-a-chip, Label-free Technology, Ultra High Throughput Screening), by Application (Drug Discovery, Biochemical Screening, Life Sciences Research, Others), by End-use (Pharmaceutical & Biotechnology Companies, Academic and Research Institutes, Contract Research Organizations) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G3F837CC4868EN.html>

Date: August 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G3F837CC4868EN

Abstracts

Global High Throughput Screening Market is valued approximately at USD 19.1 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.70% over the forecast period 2024-2032. High-throughput screening (HTS) is a pivotal technology in the drug discovery process, enabling the rapid identification of active compounds, antibodies, or genes that modulate a particular biomolecular pathway. This process involves the use of automated equipment to quickly conduct millions of chemical, genetic, or pharmacological tests. The automation in HTS allows researchers to efficiently screen large libraries of compounds, making it an indispensable tool in the pharmaceutical and biotechnology industries.

The robust growth of the High Throughput Screening Market is driven by increasing R&D funding and the rising public and private investments that are propelling market

expansion. Significant investments are being channeled into academic institutions and research organizations to support therapeutic drug development. For instance, in February 2024, the National Center for Advancing Translational Sciences (NCATS) awarded USD 7.8 million to the University of Pittsburgh School of Medicine for developing a drug discovery system known as the Pitt Translational Center for Micro-physiology Systems. These investments underscore the critical role of HTS in accelerating drug discovery and development processes.

Despite its numerous advantages, the high costs associated with HTS instruments pose a significant challenge. The technology encompasses a range of sophisticated equipment, including automated liquid handling systems, robotic arms, microplate readers, and high-resolution imaging systems. The initial capital investment required for these instruments is substantial, which can limit access, especially for smaller research facilities and academic institutions with budget constraints. Additionally, the costs related to maintenance and the need for skilled personnel further impede market growth.

Emerging markets present substantial opportunities for the adoption of HTS technologies. Countries such as China and India are witnessing significant advancements in the pharmaceutical and biotechnology sectors, supported by favorable government funding and increasing investments in drug discovery initiatives. The growing application of HTS in personalized medicine, genomics, and infectious disease research is also fueling its adoption. Moreover, government initiatives in these regions to enhance education and training in HTS techniques are fostering a skilled workforce, thereby supporting the market's expansion.

North America holds a dominant position in the high-throughput screening market, driven by the increasing adoption of HTS technologies, substantial research and development expenditure, and significant investments from the pharmaceutical industry. The region benefits from advanced combinatorial chemistry and genomics research, which further propels market growth. Conversely, the Asia Pacific region is anticipated to exhibit the fastest growth during the forecast period, attributed to the region's diverse patient population, strong presence of global pharmaceutical and biotechnology companies, and the increasing need for novel therapeutics.

Major market players included in this report are:

Thermo Fisher Scientific Inc. (US)

Agilent Technologies, Inc. (US)

Merck KGaA (Germany)

Danaher Corporation (US)

Revvity, Inc. (US)

Tecan Group Ltd. (Switzerland)

Bio-Rad Laboratories, Inc. (US)

Corning Incorporated (US)
Mettler-Toledo International Inc. (US)
Lonza (Switzerland)
Waters Corporation (US)
Sartorius AG (Germany)
Eppendorf SE (Germany)
Porvair PLC (UK)
Greiner AG (Austria)

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

By Products and Services:

- Consumables
- Instruments
- Liquid Handling Systems
- Others
- Software and Services

By Technology:

- Cell-based Assays
- 2D Cell Culture
- 3D Cell Culture
- Reporter based Assays
- Perfusion Cell Culture
- Lab-on-a-chip
- Label-free Technology
- Ultra High Throughput Screening

By Application:

- Drug Discovery
- Biochemical Screening
- Life Sciences Research
- Others

By End-use:

- Pharmaceutical & Biotechnology Companies
- Academic and Research Institutes
- Contract Research Organizations

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
- RoLA

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 HIGH THROUGHPUT SCREENING MARKET EXECUTIVE SUMMARY

- 1.1. Global High Throughput Screening Market Size & Forecast (2022- 2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Products and Services
 - 1.3.2. By Technology
 - 1.3.3. By Application
 - 1.3.4. By End-use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL HIGH THROUGHPUT SCREENING MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL HIGH THROUGHPUT SCREENING MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Growing R&D funding and investments
- 3.1.2. Increasing public and private investments
- 3.1.3. Adoption of HTS in research facilities

3.2. Market Challenges

- 3.2.1. High costs associated with HTS instruments
- 3.2.2. Scarcity of skilled personnel
- 3.2.3. Significant maintenance costs

3.3. Market Opportunities

- 3.3.1. Increasing adoption in emerging markets
- 3.3.2. Government initiatives and funding
- 3.3.3. Growing research applications in personalized medicine

CHAPTER 4. GLOBAL HIGH THROUGHPUT SCREENING 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 HIGH THROUGHPUT SCREENING MARKET SIZE & FORECASTS BY PRODUCTS AND SERVICES 2022-2032

5.1. Segment Dashboard

5.2. Global High Throughput Screening Market: Products and Services Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Consumables

5.2.2. Instruments

5.2.3. Liquid Handling Systems

5.2.4. Others

5.2.5. Software and Services

CHAPTER 6. GLOBAL HIGH THROUGHPUT SCREENING MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

6.1. Segment Dashboard

6.2. Global High Throughput Screening Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Cell-based Assays

6.2.2. 2D Cell Culture

6.2.3. 3D Cell Culture

6.2.4. Reporter based Assays

6.2.5. Perfusion Cell Culture

6.2.6. Lab-on-a-chip

6.2.7. Label-free Technology

6.2.8. Ultra High Throughput Screening

CHAPTER 7. GLOBAL HIGH THROUGHPUT SCREENING MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

7.1. Segment Dashboard

7.2. Global High Throughput Screening Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Drug Discovery

7.2.2. Biochemical Screening

7.2.3. Life Sciences Research

7.2.4. Others

CHAPTER 8. GLOBAL HIGH THROUGHPUT SCREENING MARKET SIZE &

FORECASTS BY END-USE 2022-2032

8.1. Segment Dashboard

8.2. Global High Throughput Screening Market: End-use Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. Pharmaceutical & Biotechnology Companies

8.2.2. Academic and Research Institutes

8.2.3. Contract Research Organizations

CHAPTER 9. GLOBAL HIGH THROUGHPUT SCREENING MARKET SIZE & FORECASTS BY REGION 2022-2032

9.1. North America High Throughput Screening Market

9.1.1. U.S. High Throughput Screening Market

9.1.1.1. Products and Services breakdown size & forecasts, 2022-2032

9.1.1.2. Technology breakdown size & forecasts, 2022-2032

9.1.1.3. Application breakdown size & forecasts, 2022-2032

9.1.1.4. End-use breakdown size & forecasts, 2022-2032

9.1.2. Canada High Throughput Screening Market

9.2. Europe High Throughput Screening Market

9.2.1. U.K. High Throughput Screening Market

9.2.2. Germany High Throughput Screening Market

9.2.3. France High Throughput Screening Market

9.2.4. Spain High Throughput Screening Market

9.2.5. Italy High Throughput Screening Market

9.2.6. Rest of Europe High Throughput Screening Market

9.3. Asia-Pacific High Throughput Screening Market

9.3.1. China High Throughput Screening Market

9.3.2. India High Throughput Screening Market

9.3.3. Japan High Throughput Screening Market

9.3.4. Australia High Throughput Screening Market

9.3.5. South Korea High Throughput Screening Market

9.3.6. Rest of Asia Pacific High Throughput Screening Market

9.4. Latin America High Throughput Screening Market

9.4.1. Brazil High Throughput Screening Market

9.4.2. Mexico High Throughput Screening Market

9.4.3. Rest of Latin America High Throughput Screening Market

9.5. Middle East & Africa High Throughput Screening Market

9.5.1. Saudi Arabia High Throughput Screening Market

9.5.2. South Africa High Throughput Screening Market

9.5.3. Rest of Middle East & Africa High Throughput Screening Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

10.1. Key Company SWOT Analysis

10.1.1. Company

10.1.2. Company

10.1.3. Company

10.2. Top Market Strategies

10.3. Company Profiles

10.3.1. Thermo Fisher Scientific Inc. (US)

10.3.1.1. Key Information

10.3.1.2. Overview

10.3.1.3. Financial (Subject to Data Availability)

10.3.1.4. Product Summary

10.3.1.5. Market Strategies

10.3.2. Agilent Technologies, Inc. (US)

10.3.3. Merck KGaA (Germany)

10.3.4. Danaher Corporation (US)

10.3.5. Revvity, Inc. (US)

10.3.6. Tecan Group Ltd. (Switzerland)

10.3.7. Bio-Rad Laboratories, Inc. (US)

10.3.8. Corning Incorporated (US)

10.3.9. Mettler-Toledo International Inc. (US)

10.3.10. Lonza (Switzerland)

10.3.11. Waters Corporation (US)

10.3.12. Sartorius AG (Germany)

10.3.13. Eppendorf SE (Germany)

10.3.14. Porvair PLC (UK)

10.3.15. Greiner AG (Austria)

CHAPTER 11. RESEARCH PROCESS

11.1. Research Process

11.1.1. Data Mining

11.1.2. Analysis

11.1.3. Market Estimation

11.1.4. Validation

11.1.5. Publishing
11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global High Throughput Screening market, report scope

TABLE 2. Global High Throughput Screening market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global High Throughput Screening market estimates & forecasts by Products and Services 2022-2032 (USD Billion)

TABLE 4. Global High Throughput Screening market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 5. Global High Throughput Screening market estimates & forecasts by Application 2022-2032 (USD Billion)

TABLE 6. Global High Throughput Screening market estimates & forecasts by End-use 2022-2032 (USD Billion)

TABLE 7. Global High Throughput Screening market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global High Throughput Screening market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global High Throughput Screening market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global High Throughput Screening market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global High Throughput Screening market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global High Throughput Screening market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global High Throughput Screening market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global High Throughput Screening market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. High Throughput Screening market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. High Throughput Screening market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. High Throughput Screening market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada High Throughput Screening market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada High Throughput Screening market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada High Throughput Screening market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

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

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global High Throughput Screening Market Size study, by Products and Services (Consumables, Instruments, Liquid Handling Systems, Others, Software and Services), by Technology (Cell-based Assays, 2D Cell Culture, 3D Cell Culture, Reporter based Assays, Perfusion Cell Culture, Lab-on-a-chip, Label-free Technology, Ultra High Throughput Screening), by Application (Drug Discovery, Biochemical Screening, Life Sciences Research, Others), by End-use (Pharmaceutical & Biotechnology Companies, Academic and Research Institutes, Contract Research Organizations) and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G3F837CC4868EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G3F837CC4868EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970