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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

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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.

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