

Transfection Reagents and Equipment Market Report by Product (Reagents, Equipment), Technology (Biochemical Based Transfection, Physical Transfection, Viral-Vector Based Transfection), Application (Biomedical Research, Protein Production, Therapeutic Delivery), End User (Pharmaceutical and Biotechnology Companies, Academics and Research Institutes), and Region 2024-2032

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Abstracts

The global transfection reagents and equipment market size reached US\$ 971.1 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,766.9 Million by 2032, exhibiting a growth rate (CAGR) of 6.7% during 2024-2032.

Transfection reagents and equipment help modulate gene expression in eukaryotic cells in vitro and in vivo. They allow researchers to generate stable cell lines and introduce deoxyribonucleic acid (DNA) plasmids possessing gene inserts for expression and small interfering RNA (siRNA). They are currently being used as viable analytical tools for protein synthesis, cell growth and development, and facilitating the study of genetic functions. Besides this, as they provide cost-effective and rapid production of recombinant human therapeutic proteins in sufficient quantities, transfection reagents and equipment are also gaining traction in producing r-proteins, antibodies, and viral vectors for vaccines.

Transfection Reagents and Equipment Market Trends:

Due to the outbreak of coronavirus disease (COVID-19) globally, governing agencies of

numerous countries are focusing on accelerating the vaccination drive. However, due to the emergence of new variants, the protection and immunity that these vaccines provide are short-lived. As a result, there is a rise in the need of transfection reagents and equipment to develop innovative strategies or alternatively repurpose existing treatments to fight against virus infection. Apart from this, rapid detection of new cancer variants, coupled with the escalating demand for precision medicine and high-quality oncology care, are driving the adoption of transfection reagents and equipment in cancer research and drug development. Moreover, the emerging use of gene therapies to treat rare diseases caused by genetic problems is impelling the market growth. Furthermore, due to the growing number of fatal road accidents across the globe, there is a significant rise in the demand for tissue engineering to develop functional substitutes for damaged tissues. This, in turn, is propelling the market growth. Besides this, recent advancements in transfection technologies, along with increasing investments in pharmaceutical and biotechnology sectors, are anticipated to drive the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global transfection reagents and equipment market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product, technology, application and end user.

Breakup by Product:

- Reagents
- Equipment

Breakup by Technology:

- Biochemical Based Transfection
- Physical Transfection
- Viral-Vector Based Transfection

Breakup by Application:

- Biomedical Research
- Protein Production
- Therapeutic Delivery

Breakup by End User:

Pharmaceutical and Biotechnology Companies
Academics and Research Institutes

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 Bio-Rad Laboratories Inc., Lonza Group AG, MaxCyte Inc., Merck KGaA, Mirus Bio LLC, OriGene Technologies Inc., PerkinElmer Inc., Polyplus-transfection SA, Promega Corporation, PromoCell GmbH, Qiagen N.V. and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report

1. What was the size of the global transfection reagents and equipment market in 2023?
2. What is the expected growth rate of the global transfection reagents and equipment market during 2024-2032?
3. What are the key factors driving the global transfection reagents and equipment market?
4. What has been the impact of COVID-19 on the global transfection reagents and equipment market?
5. What is the breakup of the global transfection reagents and equipment market based on the product?
6. What is the breakup of the global transfection reagents and equipment market based on the technology?
7. What is the breakup of the global transfection reagents and equipment market based on the application?
8. What is the breakup of the global transfection reagents and equipment market based on the end user?
9. What are the key regions in the global transfection reagents and equipment market?
10. Who are the key players/companies in the global transfection reagents and equipment market?

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