

Transfection Technologies Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/T73FDECA9138EN.html>

Date: March 2023

Pages: 185

Price: US\$ 2,499.00 (Single User License)

ID: T73FDECA9138EN

Abstracts

Market Overview:

The global transfection technologies market size reached US\$ 1,080.2 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,747.7 Million by 2028, exhibiting a growth rate (CAGR) of 8.5% during 2023-2028.

Transfection technology refers to the process of artificially introducing nucleic acid, such as Deoxyribonucleic Acid (DNA), Ribonucleic Acid (RNA) and oligonucleotides, into the cells. It is introduced using various physical, chemical and biological methods, which can assist in modifying certain properties of the cell. It involves various methods, including cotransfection, electroporation, cationic lipid transfection and in-vivo transfection. This process is commonly used for various genomic studies that include gene expression, screening, RNA interference and Vivo research, along with the bioproduction of viruses and proteins.

The increasing prevalence of cancer and various chronic lifestyle diseases is one of the key factors driving the growth of the market. Furthermore, widespread adoption of reagent-based methods is also providing a boost to the market growth. In comparison to the traditionally used techniques, reagent-based transfection is less complicated to administer and more cost-effective. In line with this, instrument-based methods, such as biolistic technology, microinjection and laserfection, are also gaining immense traction across the globe. Various technological advancements in cell research and therapeutic discovery are acting as another major growth-inducing factor. In line with this, research in gene transfer is majorly performed under in-vivo conditions for the development of novel therapeutic drugs and various other applications. Other factors, including

increasing investments by both government and private organizations to develop large scale transfection facilities, along with extensive research and development (R&D) activities in the field of protein therapeutics, are projected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global transfection technologies market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, application, transfection method, technology and end-user.

Breakup by Product Type:

- Reagent
- Instrument
- Others

Breakup by Application:

- Therapeutic Delivery
- Bio-Medical Research
- Protein Production
- Others

Breakup by Transfection Method:

- Lipofection
- Electroporation
- Nucleofection
- Cotransfection
- Cationic Lipid Transfection
- In-Vivo Transfection
- Others

Breakup by Technology:

Physical Transfection
Biochemical Based Transfection
Viral-Vector Based Transfection

Breakup by End-User:

Research Centers and Academic Institutes
Hospitals and Clinics
Pharmaceutical and Biotechnology Companies
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 report has also analysed the competitive landscape of the market with some of the key players being Agilent Technologies Inc., Bio-RAD Laboratories Inc., Lonza Group AG, Maxcyte Inc., Mirus Bio LLC, Polyplus Transfection, Promega Corporation, Roche Holding AG, Sigma-Aldrich Corporation, Thermo Fisher Scientific Inc., etc.

Key Questions Answered in This Report:

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

What are the key regional markets?

What has been the impact of COVID-19 on the global transfection technologies market?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the application?

What is the breakup of the market based on the transfection method?

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 transfection technologies market and who are the key players?

What is the degree of competition in the industry?

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