

Transfection Reagents & Equipment Market Size, Share & Trends Analysis Report By Method (Electroporation, Adenoviral Vectors), By Application (Transgenic Models), By Region, And Segment Forecasts, 2020 - 2025

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Abstracts

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Transfection Reagents & Equipment Market Growth & Trends

The global transfection reagents & equipment market size is expected to reach USD 1.4 billion by 2025, expanding at a CAGR of 7.7%, according to a new report by Grand View Research, Inc. The latest polymeric formulations-based compounds are gentle to cells as compared to cationic liposomes and these products render higher gene-delivery efficiency, further promoting the development of unique transfection products in the market.

Moreover, multi-component reagents such as X-tremeGENE provided by F. Hoffmann-La Roche AG, deliver high efficiency and minimal cytotoxicity than traditional ones comprising only one-component formulations. Thus, companies are keen on offering cutting-edge transfection solutions, in turn, offering significant momentum to market growth.

The gene expression studies segment dominated the market and account for the largest revenue share in 2019. This is attributed to the rising focus on the translation of genomic information in clinics. In addition, an increasing number of research projects related to the identification of chromosomal anomalies is anticipated to propel segment growth.

Transfection Reagents & Equipment Market Report Highlights

The reagents segment accounted for the highest revenue of USD 465.9 million in 2019 and is anticipated to maintain this trend throughout the forecast period

This is attributed to the heavy investments by manufacturers including F. Hoffmann-La Roche AG in the development of multicomponent-based products

Lipofection is emerging as a lucrative technique, which can be attributed to its wide acceptance across sequential, reverse, multiple, transient, and co-transfection

Moreover, high protocol variability allows lipofection to be used for transfection of all types of nucleic acids and also contributes to the revenue generation by this segment

Biomedical research includes the application of transfection reagents across mutational analysis, library screening, and preclinical testing. This segment is estimated to witness the fastest growth rate of more than 8.0% during the study period

North America generated maximum revenue of 40.0% in 2019 attributed to the sufficient presence of skilled professionals along with the strong network of original equipment manufacturers

Market participants are keen on expanding their product portfolios aimed at sustaining market competition

For instance, in July 2019, Mirus Bio launched TransIT-VirusGEN SELECT Transfection Reagent, intended to be used in the drug discovery process in gene and cell manufacturing. The substance simplifies the qualifying process of ancillary materials employed in viral vectors manufacturing for preclinical and early-phase clinical trials.

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