

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

<https://marketpublishers.com/r/T055198B590EN.html>

Date: September 2020

Pages: 135

Price: US\$ 5,950.00 (Single User License)

ID: T055198B590EN

Abstracts

This report can be delivered to the clients within 72 Business Hours

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.

Contents

CHAPTER 1 RESEARCH METHODOLOGY

- 1.1 Information Procurement
 - 1.1.1 Purchased database
 - 1.1.2 GVR's internal database
 - 1.1.3 Secondary sources
 - 1.1.4 Third party perspective
 - 1.1.5 Primary research
- 1.2 Data Analysis
- 1.3 Market Formulation & Validation
- 1.4 Region Wise Market Calculation
 - 1.4.1 Region wise market: Base estimates
 - 1.4.2 Global market: CAGR calculation
 - 1.4.3 Region based segment share calculation

CHAPTER 2 EXECUTIVE SUMMARY

CHAPTER 3 TRANSFECTION REAGENTS AND EQUIPMENT MARKET VARIABLES, TRENDS& SCOPE

- 3.1 Transfection Reagents and Equipment Market: Segment Outlook, 2014 - 2025
 - 3.1.1 Market driver analysis
 - 3.1.1.1 Ongoing R&D in cancer management
 - 3.1.1.2 Implementation of favorable government initiatives & external funding for R&D exercises
 - 3.1.1.3 Development of nanotechnology & drug delivery systems
 - 3.1.1.4 Developments in transfection technologies such as nucleofection and magnetofection
 - 3.1.2 Market restraint analysis
 - 3.1.2.1 Concerns to reduce cytotoxicity and immunogenicity
 - 3.1.2.2 Stringent regulatory guidelines
- 3.2 Penetration & Growth Prospect Mapping for Method, 2019
- 3.3 Transfection Reagents and Equipment Market-SWOT Analysis, By Factor (Political & Legal, Economic And Technological)
- 3.4 Industry Analysis - Porter's

CHAPTER 4 TRANSFECTION REAGENTS AND EQUIPMENT MARKET

CATEGORIZATION: PRODUCT ESTIMATES & TREND ANALYSIS

4.1 Transfection Reagents and Equipment Market: Product Movement Analysis

4.2 Transfection Reagents

4.2.1 Transfection reagents market, 2014 - 2025 (USD Million)

4.3 Transfection Equipment

4.3.1 Transfection equipment market, 2014 - 2025 (USD Million)

CHAPTER 5 TRANSFECTION REAGENTS AND EQUIPMENT MARKET CATEGORIZATION: METHOD ESTIMATES & TREND ANALYSIS

5.1 Transfection Reagents and Equipment Market: Method Movement Analysis

5.2 Transfection Methods: Comparative Analysis

5.2.1 Immunogenicity

5.2.2 Cytotoxicity

5.2.3 Inserts sizes

5.2.4 Handling biosafety

5.2.5 Usage complexity

5.2.6 Protocol variability

5.2.7 Process duration

5.2.8 Efficiency

5.2.9 Implementation costs

5.3 Electroporation

5.3.1 Transfection reagents and equipment market for electroporation, 2014 - 2025 (USD Million)

5.4 Liposomes

5.4.1 Transfection reagents and equipment market for liposomes, 2014 - 2025 (USD Million)

5.5 Particle Bombardment

5.5.1 Transfection reagents and equipment market for particle bombardment, 2014 - 2025 (USD Million)

5.6 Microinjection

5.6.1 Transfection reagents and equipment market for microinjection, 2014 - 2025 (USD Million)

5.7 Adenoviral Vectors

5.7.1 Transfection reagents and equipment market for adenoviral vectors, 2014 - 2025 (USD Million)

5.8 Calcium Phosphate

5.8.1 Transfection reagents and equipment market for calcium phosphate, 2014 - 2025

(USD Million)

5.9 DEAE-dextran

5.9.1 Transfection reagents and equipment market for DEAE-dextran, 2014 - 2025

(USD Million)

5.10 Magnetic Beads

5.10.1 Transfection reagents and equipment market for magnetic beads, 2014 - 2025

(USD Million)

5.11 Activated Dendrimers

5.11.1 Transfection reagents and equipment market for activated dendrimers, 2014 - 2025 (USD Million)

5.12 Laserfection

5.12.1 Transfection reagents and equipment market for laserfection, 2014 - 2025 (USD Million)

CHAPTER 6 TRANSFECTION REAGENTS AND EQUIPMENT MARKET CATEGORIZATION: APPLICATION ESTIMATES & TREND ANALYSIS

6.1 Transfection Reagents and Equipment Market: Application Movement Analysis

6.2 Gene Expression Studies

6.2.1 Transfection reagents and equipment market for gene expression studies, 2014 - 2025 (USD Million)

6.3 Protein Production

6.3.1 Transfection reagents and equipment market for protein production, 2014 - 2025 (USD Million)

6.4 Transgenic Models

6.4.1 Transfection reagents and equipment market for transgenic models, 2014 - 2025 (USD Million)

6.5 Therapeutic Delivery

6.5.1 Transfection reagents and equipment market for therapeutic delivery, 2014 - 2025 (USD Million)

6.6 Cancer Research

6.6.1 Transfection reagents and equipment market for cancer research, 2014 - 2025 (USD Million)

6.7 Biomedical Research

6.7.1 Transfection reagents and equipment market for biomedical research, 2014 - 2025 (USD Million)

CHAPTER 7 TRANSFECTION REAGENTS AND EQUIPMENT MARKET CATEGORIZATION: REGIONAL ESTIMATES & TREND ANALYSIS, BY PRODUCT,

METHOD, & APPLICATION

7.1 Transfection Reagents and Equipment Market: Regional Movement Analysis

7.2 North America

7.2.1 North America transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.2.2 The U.S.

7.2.2.1 The U.S. transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.2.3 Canada

7.2.3.1 Canada transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.3 Europe

7.3.1 Europe transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.3.2 Germany

7.3.2.1 Germany transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.3.3 The U.K.

7.3.3.1 The U.K. transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.4 Asia Pacific

7.4.1 Asia Pacific transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.4.2 China

7.4.2.1 China transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.4.3 Japan

7.4.3.1 Japan transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.5 Latin America

7.5.1 Latin America transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.5.2 Brazil

7.5.2.1 Brazil transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.6 Middle East and Africa (MEA)

7.6.1 MEA transfection reagents and equipment market, 2014 - 2025 (USD Million)

7.6.2 South Africa

7.6.2.1 South Africa transfection reagents and equipment market, 2014 - 2025 (USD Million)

CHAPTER 8 COMPETITIVE LANDSCAPE

8.1 Strategy framework

8.2 Market Participation Categorization

8.3 Company Profiles

8.3.1 Thermo Fisher Scientific, Inc.

8.3.1.1 Company overview

8.3.1.2 Financial performance

8.3.1.3 Product benchmarking

8.3.1.4 Strategic initiatives

8.3.2 Promega Corporation

8.3.2.1 Company overview

8.3.2.2 Financial performance

8.3.2.3 Product benchmarking

8.3.2.4 Strategic initiatives

8.3.3 Lonza

8.3.3.1 Company overview

8.3.3.2 Financial performance

8.3.3.3 Product benchmarking

8.3.3.4 Strategic initiatives

8.3.4 QIAGEN

8.3.4.1 Company overview

8.3.4.2 Financial performance

8.3.4.3 Product benchmarking

8.3.5 F. Hoffmann-La Roche Ltd.

8.3.5.1 Company overview

8.3.5.2 Mirus Bio LLC

8.3.5.2.1 Company overview

8.3.5.3 Financial performance

8.3.5.4 Product benchmarking

8.3.5.5 Strategic initiatives

8.3.6 Bio-Rad Laboratories Inc.

8.3.6.1 Company overview

8.3.6.2 Financial performance

8.3.6.3 Product benchmarking

8.3.7 Merck KGaA

8.3.7.1 Company overview

8.3.7.2 Sigma-Aldrich, Inc.

8.3.7.2.1 Company overview

- 8.3.7.3 Merck Millipore
 - 8.3.7.3.1 Company overview
- 8.3.7.4 Financial performance
- 8.3.7.5 Product benchmarking
- 8.3.7.6 Strategic initiatives
- 8.3.8 OriGene Technologies Inc.
 - 8.3.8.1 Company overview
 - 8.3.8.2 Financial performance
 - 8.3.8.3 Product benchmarking
- 8.3.9 MaxCyte, Inc.
 - 8.3.9.1 Company overview
 - 8.3.9.2 Financial performance
 - 8.3.9.3 Product benchmarking
 - 8.3.9.4 Strategic initiatives
- 8.3.10 POLYPLUS TRANSFECTION
 - 8.3.10.1 Company overview
 - 8.3.10.2 Financial performance
 - 8.3.10.3 Product benchmarking
 - 8.3.10.4 Strategic initiatives
- 8.3.11 Horizon Discovery Ltd.
 - 8.3.11.1 Company overview
 - 8.3.11.2 Financial performance
 - 8.3.11.3 Product benchmarking
 - 8.3.11.4 Strategic initiatives
- 8.3.12 PromoCell GmbH
 - 8.3.12.1 Company overview
 - 8.3.12.2 Financial performance
 - 8.3.12.3 Product benchmarking

List Of Tables

LIST OF TABLES

TABLE 1 Country share estimation

TABLE 2 Comparison of different Lipofectamine products provided by Thermo Fisher

TABLE 3 Electroporation reagents and equipment commercially available in the market

TABLE 4 Biolistic delivery systems: Bio-Rad Laboratories, Inc.

TABLE 5 Calcium phosphate reagents and equipment commercially available in the market

TABLE 6 Advantages vs disadvantages associated with magnetic beads-based transfection

TABLE 7 Pharmaceutical products derived from transgenic animals

TABLE 8 Significant therapeutics siRNAs in the development phase

TABLE 9 North America transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 10 North America transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 11 North America transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 12 The U.S.transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 13 The U.S.transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 14 The U.S.transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 15 Canada transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 16 Canada transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 17 Canada transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 18 Europe transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 19 Europe transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 20 Europe transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 21 Germany transfection reagents and equipment market estimates and

forecasts, by product, 2014 - 2025 (USD Million)

TABLE 22 Germany transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 23 Germany transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 24 The U.K. transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 25 The U.K. transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 26 The U.K. transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 27 Asia Pacific transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 28 Asia Pacific transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 29 Asia Pacific transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 30 China transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 31 China transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 32 China transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 33 Japan transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 34 Japan transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 35 Japan transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 36 Latin America transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 37 Latin America transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 38 Latin America transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 39 Brazil transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 40 Brazil transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 41 Brazil transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 42 MEA transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 43 MEA transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 44 MEA transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

TABLE 45 South Africa transfection reagents and equipment market estimates and forecasts, by product, 2014 - 2025 (USD Million)

TABLE 46 South Africa transfection reagents and equipment market estimates and forecasts, by method, 2014 - 2025 (USD Million)

TABLE 47 South Africa transfection reagents and equipment market estimates and forecasts, by application, 2014 - 2025 (USD Million)

List Of Figures

LIST OF FIGURES

- FIG. 1 Market summary (USD Million)
- FIG. 2 Market research process
- FIG. 3 Information procurement
- FIG. 4 Primary research pattern
- FIG. 5 Market research approaches
- FIG. 6 Value chain based sizing & forecasting
- FIG. 7 QFD modeling for market share assessment
- FIG. 8 Market segmentation & scope
- FIG. 9 Market trends & outlook
- FIG. 10 Market driver relevance analysis (Current & future impact)
- FIG. 11 Advantages of tissue nanotransfection technology as compared to in vivo transfection technologies
- FIG. 12 Application of tissue nanotransfection technology
- FIG. 13 Market restraint relevance analysis (Current & future impact)
- FIG. 14 Penetration & growth prospect mapping for method, 2019
- FIG. 15 SWOT Analysis, by factor (political & legal, economic and technological)
- FIG. 16 Porter's Five Forces Analysis
- FIG. 17 Transfection reagent and equipment market: Product outlook key takeaways
- FIG. 18 Transfection reagents and equipment market: Product movement analysis
- FIG. 19 Transfection reagents market, 2014 - 2025 (USD Million)
- FIG. 20 Comparative analysis of the K2 Transfection System with METAFECTENE PRO and L2K transfection reagents in DNA transfection
- FIG. 21 Comparative analysis of the K2 Transfection System with METAFECTENE PRO transfection reagents in mRNA transfection
- FIG. 22 Transfection equipment market, 2014 - 2025 (USD Million)
- FIG. 23 Transfection reagents and equipment market: Method outlook key takeaways
- FIG. 24 Transfection methods parameter comparison: Toxicity & biosafety
- FIG. 25 Transfection methods parameter comparison: Usage, protocol, and time requirements
- FIG. 26 Transfection methods parameter comparison: Efficiency & cost
- FIG. 27 Transfection reagents and equipment market: Method movement analysis
- FIG. 28 Transfection reagents and equipment market for electroporation, 2014 - 2025 (USD Million)
- FIG. 29 Transfection reagents and equipment market for liposomes, 2014 - 2025 (USD Million)

- FIG. 30 Comparative analysis of advantages associated with biolistic particle bombardment
- FIG. 31 Transfection reagents and equipment market for particle bombardment, 2014 - 2025 (USD Million)
- FIG. 32 Transfection reagents and equipment market for microinjection, 2014 - 2025 (USD Million)
- FIG. 33 Transfection reagents and equipment market for adenoviral vectors, 2014 - 2025 (USD Million)
- FIG. 34 Transfection reagents and equipment market for calcium phosphate, 2014 - 2025 (USD Million)
- FIG. 35 Transfection reagents and equipment market for DEAE-dextran, 2014 - 2025 (USD Million)
- FIG. 36 Transfection reagents and equipment market for magnetic beads, 2014 - 2025 (USD Million)
- FIG. 37 Transfection reagents and equipment market for activated dendrimers, 2014 - 2025 (USD Million)
- FIG. 38 Transfection reagents and equipment market for laserfection, 2014 - 2025 (USD Million)
- FIG. 39 Transfection reagents and equipment market: Application outlook key takeaways
- FIG. 40 Transfection reagents and equipment market: Application movement analysis
- FIG. 41 Transfection reagents and equipment market for gene expression studies, 2014 - 2025 (USD Million)
- FIG. 42 Transfection reagents and equipment market for protein production, 2014 - 2025 (USD Million)
- FIG. 43 Transfection reagents and equipment market for transgenic models, 2014 - 2025 (USD Million)
- FIG. 44 Transfection reagents and equipment market for therapeutic delivery, 2014 - 2025 (USD Million)
- FIG. 45 Transfection reagents and equipment market for cancer research, 2014 - 2025 (USD Million)
- FIG. 46 Transfection reagents and equipment market for biomedical research, 2014 - 2025 (USD Million)
- FIG. 47 Regional market place: Key takeaway
- FIG. 48 Transfection reagents and equipment regional outlook, 2019& 2025
- FIG. 49 North America transfection reagents and equipment market, 2014 - 2025 (USD Million)
- FIG. 50 The U.S. transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 51 Canada transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 52 Europe transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 53 Germany transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 54 The U.K. transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 55 Asia Pacific transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 56 China transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 57 Japan transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 58 Latin America transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 59 Brazil transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 60 MEA transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 61 South Africa transfection reagents and equipment market, 2014 - 2025 (USD Million)

FIG. 62 Strategy framework

FIG. 63 Participant categorization

I would like to order

Product name: 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

Product link: <https://marketpublishers.com/r/T055198B590EN.html>

Price: US\$ 5,950.00 (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/T055198B590EN.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