

Global Plasmid DNA Purification Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Plasmid DNA Purification Resin market size was valued at US\$ 149 million in 2025 and is forecast to a readjusted size of US\$ 407 million by 2032 with a CAGR of 15.2% during review period.

Plasmid DNA purification resins are bioseparation materials based on supports such as agarose, methacrylate polymers, polystyrene-divinylbenzene (PS-DVB), polyethylene glycol-based polymers, silica, ceramic hydroxyapatite, or monolithic column materials. These matrices are functionalized with ion-exchange, hydrophobic interaction, thiophilic aromatic, or multimodal ligands to selectively capture, separate, and purify supercoiled plasmid DNA from bacterial (typically *E. coli*) lysates or intermediate process streams. They are used to remove RNA, genomic DNA, host cell proteins, endotoxins, and undesired plasmid isoforms such as open circular and linear DNA. Applications mainly include gene therapy, cell therapy, mRNA template plasmids, DNA vaccines, and transfection-grade plasmid manufacturing. The estimated gross margin is approximately 62%.

Plasmid DNA purification resins represent a relatively small but rapidly growing bioprocess consumables segment. Demand is driven by the expansion of gene therapy, cell therapy, mRNA manufacturing platforms, and DNA vaccine development. Compared with conventional protein chromatography media, plasmid DNA molecules are larger, structurally more complex, and more sensitive to shear, pore accessibility, flow conditions, and conformational integrity (particularly supercoiled content). As a result, customers prioritize process outcomes such as yield, purity profile, and isoform preservation rather than unit price alone.

From a technology perspective, anion-exchange resins remain the dominant capture platform for initial plasmid purification steps. Hydrophobic interaction media, thiophilic ligands, multimodal resins, and monolithic columns are increasingly used for intermediate purification and polishing steps to improve isoform separation and impurity clearance. As plasmid size increases and manufacturing scales up, traditional small-pore bead resins face limitations in mass transfer and clogging, making large-pore, rigid, high-flow, and scalable validated materials more suitable for GMP production environments.

The competitive landscape is led by companies such as Cytiva, Thermo Fisher, Sartorius, Merck, Astrea Bioseparations, and Tosoh, which benefit from extensive application data, validated workflows, and regulatory support documentation. Domestic suppliers are emerging primarily through ion-exchange, agarose, and polymer bead platforms with localized supply advantages. However, due to long validation cycles and strict process integration requirements, plasmid purification resins typically require extensive technical support, method development, impurity clearance data, and batch consistency validation, making it a high-margin but slower-adoption product category.

This report is a detailed and comprehensive analysis for global Plasmid DNA Purification Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Plasmid DNA Purification Resin market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Plasmid DNA Purification Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Plasmid DNA Purification Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Plasmid DNA Purification Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Plasmid DNA Purification Resin

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Plasmid DNA Purification Resin market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cytiva, Thermo Fisher Scientific, Sartorius, Merck, Astrea Bioseparations, Tosoh Bioscience, Bio-Rad, Bio-Works, Purolite, QIAGEN, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Plasmid DNA Purification Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Anion Exchange Resin

Hydrophobic Interaction Resin

Thiophilic Aromatic Resin

Multimodal Resin

Size Exclusion Resin

Silica Adsorption Resin

Market segment by Matrix Type

Agarose-Based Resin

Polymethacrylate Resin

Polystyrene-Divinylbenzene Resin

Polyvinyl Ether Resin

Ceramic Hydroxyapatite Media

Silica-Based Media

Monolith Media

Market segment by Ligand or Functional Group

Q Ligand

DEAE Ligand

Butyl or Hexyl Ligand

Thiophilic Aromatic Ligand

Multimodal Ligand

Hydroxyapatite Surface

Silica Surface

Market segment by Supply Format

Loose Resin

Prepacked Column

Monolith Column

Membrane Adsorber

Screening Kit

Process Pack

Market segment by Application

Gene and Cell Therapy Plasmid Production

mRNA Template Plasmid Production

DNA Vaccine Production

Transfection-Grade Plasmid Preparation

Process Development and Scale-Up

Other DNA Biomanufacturing

Major players covered

Cytiva

Thermo Fisher Scientific

Sartorius

Merck

Astrea Bioseparations

Tosoh Bioscience

Bio-Rad

Bio-Works

Purolite

QIAGEN

Smart Lifesciences

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Plasmid DNA Purification Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plasmid DNA Purification Resin, with price, sales quantity, revenue, and global market share of Plasmid DNA Purification Resin from 2021 to 2026.

Chapter 3, the Plasmid DNA Purification Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plasmid DNA Purification Resin breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Plasmid DNA Purification Resin market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Plasmid DNA Purification Resin.

Chapter 14 and 15, to describe Plasmid DNA Purification Resin sales channel, distributors, customers, research findings and conclusion.

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