

Global Plasmid DNA Purification Resin Market Growth 2026-2032

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Abstracts

The global Plasmid DNA Purification Resin market size is predicted to grow from US\$ 142 million in 2025 to US\$ 407 million in 2032; it is expected to grow at a CAGR of 16.2% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Plasmid DNA Purification Resin Industry Forecast" looks at past sales and reviews total world Plasmid DNA Purification Resin sales in 2025, providing a comprehensive analysis by region and market sector of projected Plasmid DNA Purification Resin sales for 2026 through 2032. With Plasmid DNA Purification Resin sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Plasmid DNA Purification Resin industry.

This Insight Report provides a comprehensive analysis of the global Plasmid DNA Purification Resin landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Plasmid DNA Purification Resin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Plasmid DNA Purification Resin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plasmid DNA Purification Resin and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Plasmid DNA Purification

Resin.

This report presents a comprehensive overview, market shares, and growth opportunities of Plasmid DNA Purification Resin market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Anion Exchange Resin

Hydrophobic Interaction Resin

Thiophilic Aromatic Resin

Multimodal Resin

Size Exclusion Resin

Silica Adsorption Resin

Segmentation by Matrix Type:

Agarose-Based Resin

Polymethacrylate Resin

Polystyrene-Divinylbenzene Resin

Polyvinyl Ether Resin

Ceramic Hydroxyapatite Media

Silica-Based Media

Monolith Media

Segmentation by Ligand or Functional Group:

Q Ligand

DEAE Ligand

Butyl or Hexyl Ligand

Thiophilic Aromatic Ligand

Multimodal Ligand

Hydroxyapatite Surface

Silica Surface

Segmentation by Supply Format:

Loose Resin

Prepacked Column

Monolith Column

Membrane Adsorber

Screening Kit

Process Pack

Segmentation 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

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Cytiva

Thermo Fisher Scientific

Sartorius

Merck

Astrea Bioseparations

Tosoh Bioscience

Bio-Rad

Bio-Works

Purolite

QIAGEN

Smart Lifesciences

Key Questions Addressed in this Report

What is the 10-year outlook for the global Plasmid DNA Purification Resin market?

What factors are driving Plasmid DNA Purification Resin market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Plasmid DNA Purification Resin market opportunities vary by end market size?

How does Plasmid DNA Purification Resin break out by Type, by Application?

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