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Plasmid DNA Manufacturing Market: Distribution by Scale of Operation (Commercial, Clinical and Preclinical), Application Area (Cell Therapy Manufacturing, Gene Therapy Manufacturing, DNA / RNA Vaccine Development, Viral Vector Manufacturing, and Other Application Areas), Therapeutic Area (Metabolic Disorders, Neurological Disorders, Oncological Disorders, Rare Disorders, and Other Disorders), and Geography (North America, Europe, Asia, Latin America, Middle East and North Africa, and Rest of the World): Industry Trends and Global Forecasts, 2023-2035

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Abstracts

The global plasmid DNA manufacturing market is estimated to be USD 539 million by 2035 and anticipated to grow at a CAGR of 15% during the forecast period 2023-2035.

The realm of biotechnology and genetic research is witnessing dynamic growth within the manufacturing market for plasmid DNA. This form of genetic material, characterized by its circular, double-stranded DNA structure capable of self-replication apart from chromosomal DNA, holds pivotal significance in the development of advanced therapy medicinal products (ATMPs). Notably, it plays a fundamental role in cell and gene therapy, as well as in the creation of nucleic acid vaccines. The adaptability of plasmid DNA through genetic engineering renders it an invaluable asset in scientific advancements. The demand for plasmid DNA has seen exponential growth, largely

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driven by the expanding landscape of cell and gene therapies. This demand spiked notably during the global COVID-19 pandemic, where plasmid-based delivery mechanisms became essential in developing RNA/DNA vaccines and therapeutic solutions. Industry leaders like Moderna and Pfizer-BioNTech utilized plasmid-based platforms for their mRNA vaccines, significantly amplifying the necessity for plasmid DNA.

However, the production of plasmids presents several challenges, including low yields, plasmid instability, and stringent regulatory considerations. Consequently, specialized facilities and adherence to rigorous good manufacturing practices (GMP) are imperative. As a result, an increasing number of researchers and pharmaceutical developers are turning to specialized contract service providers equipped with expertise and advanced technologies to fulfill their GMP plasmid manufacturing requirements. These service providers offer comprehensive solutions encompassing process development, optimization, plasmid construction, design, and engineering. Additionally, these specialized entities streamline the plasmid DNA manufacturing process, optimizing resource allocation and ensuring the delivery of high-quality plasmid DNA that adheres to regulatory standards and research requirements. The soaring demand for ATMPs and the growing trend of outsourcing plasmid DNA manufacturing operations are expected to drive significant growth in this market throughout the forecast period.

Report Coverage

The report conducts an analysis of the plasmid DNA manufacturing market, considering factors such as scale of operation, application area, therapeutic area, and geography.

It examines the various elements influencing market growth, including drivers, restraints, opportunities, and challenges.

The report evaluates the potential advantages and impediments within the market, providing insights into the competitive landscape for major players.

Revenue forecasts for market segments are provided across six major regions.

Economic factors impacting the plasmid DNA manufacturing market are assessed by studying historical trends, currency fluctuations, foreign exchange impacts, recessions, and inflation measurements.

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Research insights are presented to offer a concise and comprehensive view of the current state of the plasmid DNA manufacturing market, along with short-term, mid-term, and long-term projections.

Various plasmid types are detailed based on their functions, focusing on pharmaceutical applications, manufacturing challenges, and the growing trend of outsourcing production.

Service providers are examined based on establishment, employee count, headquarters' location, company types, venture structures, services offered, manufacturing facilities, offerings, and application areas.

Market trends are analyzed, considering factors such as company size, headquarters' location, venture type, key offerings, scale of operation, grade of plasmid DNA, and application areas.

Partnerships among stakeholders since 2015, including manufacturing agreements, product development, technology utilization, service alliances, and development agreements, are investigated.

Detailed examination of acquisitions in the plasmid manufacturing market from 2015-2023 is included, encompassing acquisition types, geographical locations, company sizes, key value drivers, and deal multiples.

Estimation of industry players' manufacturing capacity is conducted, considering factors like company size, plasmid DNA grade, operation scale, and manufacturing facility location.

Service providers' competitiveness is evaluated based on supplier power, capabilities, partnership activity, services offered, plasmid DNA grade, operation scale, acquisitions, and agreement types.

Leading service providers are elaborated upon, including establishment year, employee count, headquarters location, financial performance (if available), recent developments, and future outlook.

Current and future plasmid DNA demand is assessed considering operation scale, application areas, geography, patient population, dosing frequency, and strength for 2023-2035.

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Factors affecting plasmid DNA manufacturing market growth, identifying drivers, restraints, opportunities, and challenges influencing the industry's trajectory, are thoroughly examined.

Key Market Companies

AGC Biologics

Aldevron

Biomay

Catalent Pharma Solutions

Charles River

Cytovance Biologics

Forge Biologics

GenScript ProBio

Thermo Fisher Scientific

VGXI

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