

Electrophoresis Equipment and Supplies Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

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Report description:

The electrophoresis equipment and supplies market is expected to register a CAGR of 4.9% during the forecast period.

The COVID-19 pandemic had a significant positive impact on the electrophoresis equipment and supplies market. This is majorly due to the application of electrophoresis in diagnosing COVID-19. To increase COVID-19 testing capacities, a new method for SARS-CoV-2 detection was developed. The method includes using a two steps end point RT-PCR protocol, where conventional nonreal-time thermal cycler, the set of primers targets included on the CDC RT-qPCR protocol, and agarose gel electrophoresis are used. With the help of this new method, the diagnosis of COVID-19 was widely made across developed countries, such as the United States and European countries. This factor contributed significantly to market growth during the pandemic.

The electrophoresis technique is mainly used to separate and analyze large molecules, such as proteins, nucleic acids, plasmids, DNA, RNA, and fragments of these macromolecules. Electrophoresis comprises several related analytical techniques, such as affinity electrophoresis, capillary electrophoresis, gel electrophoresis, immune electrophoresis, electroblotting, pulsed-field gel electrophoresis, and isoelectric focusing.

The demand for healthcare innovations has been increasing worldwide. COVID-19 forced the pharmaceutical and biotechnology industries to develop innovative drugs or vaccines that can cope with the novel virus. This led to increasing innovations in the field of pharmaceuticals, and electrophoresis plays a crucial role in these innovations. For instance, the PubMed data published in July 2021 suggests that the application of electrophoresis is on the rise in pharmaceutical development. Researchers use the electrophoresis technique for pharmaceutical analysis. Hence, with the rising use of electrophoresis in new drug development, the market studied is expected to witness strong growth over the forecast period.

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However, the long analysis time associated with this technique is one of the factors hindering the market growth.

Electrophoresis Equipment & Supplies Market Trends

Pharmaceutical and Biotechnology Companies Segment is Expected to Witness Rapid Growth

Capillary gel electrophoresis techniques are used in pharmaceutical and biotechnology industries to separate large molecules or macromolecules, such as DNA, RNA, and proteins, whose mass-to-charge ratios do not vary much with size. In 2021, the Association of Medical Research Charities (AMRC) contributed GBP 1.5 billion (USD 1.82 billion) of non-industry spending on research and development in the United Kingdom, while the Department of Health and Social Care (DHSC) spent around GBP 5 billion (USD 6.08 billion). Increasing investments in life sciences research and the UK government's ambition to increase R&D spending to 2.4% of GDP by 2027 and 3% over the longer term also support market growth.

The pharmaceutical and biotechnology companies segment holds a significant market share in the electrophoresis equipment and supplies market. It is anticipated to show a similar trend over the forecast period due to the growing adoption of electrophoresis in quality control of pharmaceutical formulations by analyzing the drug content of pharmaceutical formulations and identification and study of DNA fragments, and testing of antibiotics and vaccines. For instance, in August 2022, Kymos stated that electrophoretic assays in different types and formats are currently included as a testing method in the certificates of analysis for batch testing of therapeutic proteins. Cytokines, blood factors, hormones, monoclonal antibodies (mAbs), and fusion proteins are some of the proteins that can be analyzed with electrophoresis. The adoption of electrophoresis increases with its rising importance, which contributes to the growth of the segment.

Constant technological advancements in the medical and healthcare sector, the growing demand for innovative therapies and drugs, and increasing research projects on genes, proteins, and biomolecules are the key factors driving the pharmaceutical and biotechnology companies segment.

North America is Expected to Hold a Significant Share in the Market and Expected to do Same in the Forecast Period

North America is expected to hold a major market share in the electrophoresis equipment and supplies market due to growing demand from research and development projects involving proteins, genes, and associated biomolecules, stringent regulatory issues on pharmaceutical product quality control, and process validation processes in this region.

Increasing investments and R&D spending in the United States contributes to the growth of the electrophoresis equipment market. For instance, according to the National Institute of Health data 2022, R&D investments in the United States increased to USD 88.6 billion in 2021 from USD 45.7 billion in 2016. Hence, with the rise in R&D expenditure across the United States, the market for electrophoresis equipment and supplies is expected to witness strong growth in the coming years.

Strong analytical methods with high separation efficiency and sensitivity are needed to confidently identify and quantify proteins, posttranslational modifications, and protein complexes expressed in cells and tissues. In recent years, interest in capillary electrophoresis-mass spectrometry (CE-MS) greatly expanded due to this demand in developed countries like the United States. With the increasing demand, the market studied is believed to witness strong growth over the forecast period.

Electrophoresis Equipment & Supplies Market Competitor Analysis

The electrophoresis equipment and supplies market is fragmented and consists of several major players. In terms of market share, a few major players currently dominate the market. Some companies that currently dominate the market are Bio-Rad Laboratories, Inc, GE Healthcare, Thermo Fisher Scientific Inc., Agilent Technologies, Inc., Merck Millipore (Merck & Co., Inc.),

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