

Rising Applications in Drug Discovery Propel Growth in Electrophoresis Market | Projected to Reach \$4 Billion

The global electrophoresis market size was \$2.3 billion in 2021, and is projected to reach \$4 billion by 2031, growing at a CAGR of 5.7% from 2022 to 2031.

PORTLAND, OR, UNITED STATES, March 18, 2025 /EINPresswire.com/ -- Electrophoresis is a laboratory technique used to separate and analyze molecules based on their size, charge, and other physical properties. It involves applying an electric field to a gel or other matrix containing the molecules, causing them to migrate towards the opposite electrode at different rates depending on their properties. Electrophoresis is used in a wide range of scientific fields, including molecular biology, biochemistry, and forensic science. It can be used for DNA fingerprinting, protein analysis, and the diagnosis of genetic disorders. The global [electrophoresis market](https://www.alliedmarketresearch.com/request-sample/931) size was \$2.3 billion in 2021, and is projected to reach \$4 billion by 2031, growing at a CAGR of 5.7% from 2022 to 2031.

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There are several types of electrophoresis, including:

1. Agarose gel electrophoresis: This is a common technique used to separate DNA fragments based on their size. The DNA is loaded onto a gel matrix and subjected to an electric field, causing the fragments to migrate towards the opposite electrode. Smaller fragments move faster and travel further than larger ones, allowing for separation and visualization of the fragments.
2. Polyacrylamide gel electrophoresis: This technique is similar to agarose gel electrophoresis but is used for smaller molecules such as proteins and RNA.
3. Capillary electrophoresis: In this technique, the molecules are separated in a narrow capillary tube filled with a buffer solution. The tube is placed between two electrodes and an electric field is applied, causing the molecules to migrate through the capillary at different rates based on their properties.

Major market players covered in the report, such as -

- Agilent,
- Bio-Rad Corporation,
- Danaher,
- Harvard,
- LONZA GROUP,
- Merck & Co. Inc.,
- PerkinElmer,
- Qiagen NV,
- Shimadzu,
- ThermoFisher Scientific

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<https://www.alliedmarketresearch.com/checkout-final/1d07cbe7f84c91254eb7e26ab0d85d21>

Key Benefits for Stakeholders -

- The report provides quantitative analysis of market segments, current trends, strategies and potential of Electrophoresis Market research to identify potential Electrophoresis Market opportunities in genetics.
- In-depth analysis of this sector helps identify current market opportunities.
- Market analysis and information related to key drivers, restraints and opportunities are provided. • Porter's Five Forces Analysis identifies the capabilities of buyers and suppliers to enable stakeholders to make profitable business decisions and strengthen the network of buyers.
- The largest countries in each region are listed according to their contribution to the global market.
- Focusing on market players makes benchmarking easier and provides a clear understanding of the current market situation.
- The report includes regional and global Electrophoresis Market analysis, key players, market segments, application areas and Market growth strategies.

The basic principle of electrophoresis is that charged molecules, such as DNA, RNA, and proteins, will move through a gel or other matrix when an electric field is applied. The gel or matrix acts as a molecular sieve, separating the molecules based on their size, shape, and charge. The separated molecules can then be visualized using various detection methods, such as staining, fluorescence, or autoradiography.

There are several factors that can affect the movement of molecules during electrophoresis, including the strength and direction of the electric field, the properties of the gel or matrix, and the properties of the molecules themselves. For example, in agarose gel electrophoresis, the size of the DNA fragments is a major factor in their migration rate, while in polyacrylamide gel electrophoresis, both the size and charge of proteins can affect their migration.

The Electrophoresis Market is expected to witness a significant growth in the coming years. This market has gained interest of the healthcare and medical sectors owing to increased prevalence of hypertension throughout the globe. Furthermore, the global Electrophoresis Market is segmented on the basis of product type, end user, and region. Leading market players have been introducing various strategies to help enterprises move their on-premise models to on-demand models.

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Frequently Asked Questions?

Q1. What is the estimated industry size of Electrophoresis?

Q2. What are the upcoming trends of Electrophoresis Market in the world?

Q3. What is the leading application of Electrophoresis Market?

Q4. Which is the largest regional market for Electrophoresis?

Q5. Which are the top companies to hold the market share in Electrophoresis?

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various research data tables and confirms utmost accuracy in our market forecasting. Each and every us companies and this helps us in digging out market data that helps us generate accurate y data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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