

Western Blotting Market by Product, (Consumables (Antibody), Instrument (Electrophoresis, Blotting System, Imager (Fluorescent))), Application (Biomedical, Clinical Diagnostics), End User (Research Institute, Hospital, Biopharma) - Global Forecast to 2026

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Abstracts

The global western blotting market is projected to reach USD 1.4 billion by 2026 from USD 1.0 billion in 2021, at a CAGR of 6.7% during the forecast period. Technological advancements, increasing government funding in the field of biomedical research, growing demand for personalized medicine, and the rising prevalence of HIV are the key factors driving the market growth.

“By instruments segment, the imagers sub segment accounted for the fastest-growing segment of the western blotting market”

Based on instruments, the western blotting market is segmented into gel electrophoresis instruments, blotting systems, and imagers. Growth in this product segment is primarily due to the automation of imagers, which simplifies the protein detection process.

“By end user segment, the academic & research institutes segment accounted for the largest share of the western blotting market”

Based on end users, the western blotting market is segmented into academic & research institutes, biopharmaceutical & biotechnology companies, hospitals & diagnostic laboratories, and other end users In 2020, academic & research institutes

accounted for the largest share of the western blotting market. The large share of the academic & research institutes end-user segment can be attributed to growing government investments for research activities and increasing research in the area of proteomics.

“Asia Pacific: The fastest-growing region in the western blotting market.”

The western blotting market in the Asia Pacific region is projected to register the highest growth during the forecast period. The major factors driving the growth of the Asia Pacific market include strong government support for the growth of the pharmaceutical and biotechnology industry, the presence of bioclusters in China and India, increasing funding for life science research, and growing initiatives related to target disease diagnosis.

“North America: the largest share of the western blotting market”

In 2020, North America accounted for the largest share of the western blotting market. The major factors driving the growth of this regional market include the presence of top manufacturers of western blotting products in this region, rise in research funding, increasing investments in proteomics research, and growing focus on personalized medicine.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Respondent— Supply Side- 70%, Demand Side-30%

By Designation— CXOs and Directors- 30%, Executives - 25%, Managers - 45%

By Region— North America - 40%, Europe - 25%, APAC – 20%, LATAM- 10% , MEA- 5%

Prominent players in the western blotting market include Bio-Rad Laboratories, Inc. (US), Thermo Fisher Scientific Inc. (US), Danaher Corporation (US), Merck KGaA (Germany), Bio-Techne Corporation (US), PerkinElmer, Inc. (US), LI-COR, Inc. (US), Advansta Inc. (US), Cell Signaling Technology, Inc. (US), F. Hoffmann-La Roche Ltd.

(Switzerland), Azure Biosystems, Inc. (US), Boster Biological Technology (US), Geno Technology Inc. (US), Rockland Immunochemicals, Inc. (US), Precision Biosystems (US), Cleaver Scientific Ltd. (UK), Abcam Plc (UK), Proteintech Group (US), Enzo Biochem, Inc. (US), Abnova Corporation (Taiwan), Sino Biological Inc. (China), StressMarq Biosciences Inc. (Canada), Abbexa Ltd. (UK), Covalab S.A.S. (France), and Biorbyt Ltd. (UK).

Research Coverage:

The report segments the western blotting market based on region (the Asia Pacific, Europe, North America, Latin America, and the Middle East & Africa), product (consumables [Reagents & Buffers, Antibodies & Conjugates {Primary Antibodies, Secondary Antibodies, Other Antibodies & Conjugates}, Kits

Membranes & Filter Papers Other Consumables], instruments [Electrophoresis, Blotting Systems {Semi-dry Blotting Systems, Wet Blotting Systems}, Imagers {Chemiluminescent Imagers, Fluorescent Imagers, Other Imagers}]), application (Biomedical Research, Clinical Diagnostics [HIV, Lyme Disease, Hepatitis, Other Diseases], Agricultural Applications, Other Applications), and end-user (Academic & Research Institutes, Biopharmaceutical & Biotechnology Companies, Hospitals & Diagnostic Laboratories, Other End Users). The report also provides a comprehensive review of market drivers, restraints opportunities, challenges and trends in the western blotting market.

Key Benefits of Buying the Report:

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the western blotting market and provides them information on key market drivers, restraints, challenges, and opportunities.

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9.4.1.1 Growing research initiatives towards the development of precision medicine are supporting market growth in Japan

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9.5.1 INCREASING ADOPTION OF PROTEOMICS TECHNOLOGIES IN THE REGION TO DRIVE MARKET GROWTH

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10.8.3 OTHER DEVELOPMENTS

TABLE 297 WESTERN BLOTTING MARKET: OTHER DEVELOPMENTS, JANUARY 2018–OCTOBER 2021

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TABLE 300 DANAHER CORPORATION: BUSINESS OVERVIEW

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TABLE 303 PERKINELMER, INC.: BUSINESS OVERVIEW

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TABLE 307 ADVANSTA INC.: BUSINESS OVERVIEW

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TABLE 308 CELL SIGNALING TECHNOLOGY, INC.: BUSINESS OVERVIEW

11.1.12 AZURE BIOSYSTEMS, INC.

TABLE 309 AZURE BIOSYSTEMS, INC.: BUSINESS OVERVIEW

11.1.13 BOSTER BIOLOGICAL TECHNOLOGY

TABLE 310 BOSTER BIOLOGICAL TECHNOLOGY: BUSINESS OVERVIEW

11.1.14 GENO TECHNOLOGY INC.

TABLE 311 GENO TECHNOLOGY INC.: BUSINESS OVERVIEW

11.1.15 STRESSMARQ BIOSCIENCES INC.

TABLE 312 STRESSMARQ BIOSCIENCES INC.: BUSINESS OVERVIEW

*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

11.2 OTHER COMPANIES

11.2.1 F. HOFFMANN-LA ROCHE LTD.

11.2.2 ROCKLAND IMMUNOCHEMICALS, INC.

11.2.3 PRECISION BIOSYSTEMS

11.2.4 CLEAVER SCIENTIFIC LTD.

11.2.5 PROTEINTECH GROUP

11.2.6 ABNOVA CORPORATION

11.2.7 SINO BIOLOGICAL INC.

11.2.8 ABBEXA LTD.

11.2.9 COVALAB S.A.S.

11.2.10 BIORBYT LTD.

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About

At present, the western blotting market is witnessing technological advancements that have resulted in a paradigm shift within the market, from manual techniques to automated procedures. Western blotting, also known as immunoblotting, is a technique that is used to detect and analyze proteins. It has a wide range of applications in both academics as well as in the life sciences industry, including drug discovery and development, research on proteomics, and diagnosis of diseases. Extensive research in these fields has created a demand for advanced techniques. Although western blotting is moving towards automation, emerging alternative techniques with increased speed, accuracy, consistency, and sensitivity are likely to overshadow the western blotting market.

The global western blotting market was valued at \$XX million in 2013 and is expected to reach \$XX million by 2018, growing at a CAGR of XX% from 2013 to 2018. The key factors propelling the growth of this market are the increased investments and funding by government bodies worldwide, ongoing new product launches, technological advancements, and increasing use of western blotting technologies in the fields of proteomics. However, the high costs of primary antibodies and the emergence of alternative technologies are likely to restrain the growth of the western blotting market.

Emerging markets such as India and China are likely to create opportunities for western blotting instruments and consumables owing to the rise in proteomics research and flourishing pharmaceutical and biotechnology industry in these countries. However, the high level of care taken to achieve accurate results while performing western blotting procedures is a challenge for researchers or users.

Consumables accounted for the largest share of the western blotting products market in 2013. The large share of this segment can be attributed to the widespread requirement of consumables for manual, semi-automated, as well as automated western blotting techniques.

The reagents segment also accounted for a major share of the western blotting consumables market in 2013. However, the kits segment is likely to grow at the highest CAGR of XX% in the next five years. Of all the reagents, chromogenic reagents accounted for the largest share of the western blotting reagents market, owing to their low cost.

Similarly, semi-automated instruments accounted for the largest share of the western blotting instruments market in 2013. However, automated western blotting instruments are likely to surpass the market for semi-automated instruments in the future owing to the increased efficiency of these instruments.

In terms of application, the global western blotting market was dominated by the biochemical and biomedical research segment in 2013, followed by the disease diagnosis and agriculture segments. Whereas, on the basis of end users, research institutes accounted for the largest share of the western blotting end-user market in 2013, followed by pharmaceutical and biotechnology companies and diagnostic laboratories.

In 2013, North America dominated the global western blotting market, followed by Europe, Asia, and the Rest of the World (RoW). North America is expected to maintain its leadership position in the market in the coming years. The North American market growth is likely to be driven by factors such as increasing use of genetically modified crops, increase in research of bio-based drugs, and rising incidences of HIV in the U.S. In addition, funding by the National Institutes of Health (NIH) to carry out research in the field of biotechnology is likely to propel the use of western blotting techniques in the North American region.

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