

Gel Documentation Systems Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/GC9E783F168CEN.html>

Date: October 2023

Pages: 148

Price: US\$ 2,499.00 (Single User License)

ID: GC9E783F168CEN

Abstracts

Market Overview:

The global gel documentation systems market size reached US\$ 312.5 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 388.6 Million by 2028, exhibiting a growth rate (CAGR) of 3.52% during 2023-2028.

Gel documentation systems record and measure labeled nucleic acid and protein in different types of media, such as agarose, acrylamide, or cellulose. It comprises a light source, transilluminator, closed-circuit television (CCTV) camera for capturing the image, and a dark room or hood to shield the body from ultraviolet (UV) light. It relies on stain-free technology to make proteins fluorescent directly in the gel with short photoactivation. It is employed in the rapid evaluation of gels post electrophoresis to save chemicals and time. It assists in separating proteins based on molecular weight due to high sensitivity, enhanced speed, and improved signal stability. Apart from this, it aids in gel and blot imaging, colony counting, immunoassay, multiplex protein detection, monoclonal and polyclonal antibody binding affinities, post-translational modification characterization, 2D electrophoresis, and protein quantitation.

Gel Documentation Systems Market Trends:

The growing prevalence of chronic diseases, such as heart disease, cancer, arthritis, diabetes, and Alzheimer's disease, represents one of the key factors driving the market. In addition, the rising utilization of polymerase chain reaction (PCR) methods for the diagnosis and detection of diseases is contributing to the growth of the market. Besides this, governments of several countries are investing in genomic, proteomic, and

electrophoresis techniques, which are positively influencing the market. Moreover, the growing employment of gel documentation systems for the imaging of gels in molecular biology techniques is offering a positive market outlook. Apart from this, there is a rise in the adoption of genomic data analysis software in pathology laboratories across the globe. This, along with the thriving healthcare industry, is propelling the growth of the market. Additionally, the increasing application of advanced techniques, such as deoxyribonucleic acids (DNA) diagnostics and western blot, for the detection of protein from a sample is bolstering the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global gel documentation systems market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, light source, detection technique, application and end user.

Breakup by Product Type:

Instruments

Software

Accessories

Breakup by Light Source:

Light Emitting Diodes

UV

Laser

Breakup by Detection Technique:

UV Detectors

Fluorescence

Chemiluminescence

Breakup by Application:

Nucleic Acid Quantification

Protein Quantification

Others

Breakup by End User:

Academic and Research Institutes

Pharma and Biotech Companies

Diagnostic Laboratories

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Analytik Jena AG (Endress+Hauser), Atto Corporation, Azure Biosystems Inc, Bio-Rad Laboratories Inc., Cleaver Scientific, Corning Incorporated, Isogen Life Science B.V., LI-COR Biosciences, MaestroGen Inc., Sigma-Aldrich (Merck KGaA), Syngene International Ltd. (Biocon Limited) and Thermo Fisher Scientific Inc.

Key Questions Answered in This Report

1. How big is the global gel documentation systems market?
2. What is the expected growth rate of the global gel documentation systems market during 2023-2028?
3. What are the key factors driving the global gel documentation systems market?
4. What has been the impact of COVID-19 on the global gel documentation systems market?
5. What is the breakup of the global gel documentation systems market based on the product type?
6. What is the breakup of the global gel documentation systems market based on the light source?
7. What is the breakup of the global gel documentation systems market based on the detection technique?
8. What is the breakup of the global gel documentation systems market based on the application?
9. What are the key regions in the global gel documentation systems market?
10. Who are the key players/companies in the global gel documentation systems market?

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