

Global Label-Free Detection (LED) Market Size study & Forecast, by product (Consumables, Instruments), by Technology (Mass Spectrometry, Surface Plasmon Resonance, Bio-Layer Interferometry, Isothermal Titration Calorimetry, Differential Scanning Calorimetry, and Other LFD Technologies), by Application (Binding Kinetics, Binding Thermodynamics, Endogenous Receptor Detection, Hit Confirmation, Lead Generation, and Other Applications), by End-user (Pharmaceutical & Biotechnology Companies, Academic & Research Institutes, and Contract Research Organizations) and Regional Analysis, 2023-2030

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## **Abstracts**

Global Label-Free Detection (LED) Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than 9.1% over the forecast period 2023-2030. The label-free detection market refers to the market for technologies and tools that enable the detection and quantification of biological molecules without the use of labels or markers. This includes technologies such as surface plasmon resonance (SPR), bio-layer interferometry (BLI), isothermal titration calorimetry (ITC), and calorimetry-based assays. The market growth is driven by key factors such as the high sensitivity of label-free technologies and the growing number of drug discovery programs.



Since only native proteins and ligands are used, the fundamental benefit of LFD approaches is that more precise information may be obtained. The development of surface-enhanced laser desorption/ionization (SELDI) time of flight (TOF)-mass spectrometry (MS), a novel technique that offers on-chip purification of the target proteins and subsequent ionisation of the retained molecules to be detected, is one example of an innovation in LFD techniques. In 2021, Spectris (UK) will release the most recent advancement in differential scanning calorimetry (DSC), which was developed especially for regulated settings and provides vital information to direct the development of biopharmaceuticals. Furthermore, the National Institutes for Health (NIH) estimates that the overall amount of clinical research funding provided by the NIH in 2020 and 2021 will be 32 billion and 45 billion USD, respectively. Clinical research investment is rising, which will soon increase the market. In addition, interferometry offers benefits such as reduced variation in the samples' refractive index and label-free, microfluidic-free bio-layer interferometry detection devices. Moreover, growing life science research activity and introduction of technologically advance advanced project enhance the market opportunities in the projected period. However, the high Cost of Instruments stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Label-Free Detection (LED) Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America is dominating the overall market growth of the Label Free Detection Market owing to Government spending and technology development which are both significant in the region. The market expansion of the area is also being aided by the rising incidence of disease and the expansion of drug research programs. However, Asia Pacific is expected to be the fastest region owing to the Growing biopharmaceutical industry and Increasing investment in R&D.

Major market player included in this report are:

Cytiva (Danaher Corporation)

Ametek Inc.

Corning Incorporated

Horiba Ltd.

Malvern Panalytical

PerkinElmer Inc.

Shimadzu Corporation

Thermo Fisher Scientific

Fluidic Analytics

Waters Corporation



Recent Developments in the Market:

In October 2021, Gator Bio, Inc. introduced its Gator SMAP probe and Gator mFC probe for its GatorPrime and GatorPlus biolayer interferometry (BLI) systems. The systems are used to study the interactions between tiny molecules and proteins as well as to screen for hybridomas and small peptides.

in March 2021, The latest advancement in the range of label-free analytical tools from The Life Science Group Sartorius was the debut of the new, high-performance Octet R series of equipment.

Global Label-Free Detection (LED) Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product, Technology, Application, End User Region Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product: Consumables Instruments

By Technology: Mass Spectrometry Surface Plasmon Resonance (SPR)



Bio-Layer Interferometry
Isothermal Titration Calorimetry
Differential Scanning Calorimetry
Other LFD Technologies

By Application:

**Binding Kinetics** 

**Binding Thermodynamics** 

**Endogenous Receptor Detection** 

Hit Confirmation

**Lead Generation** 

Other Applications

By End User:

Pharmaceutical & Biotechnology Companies

Academic & Research Institutes

Contract Research Organizations

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

**RoAPAC** 



Latin America Brazil Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa



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