

Metabolomics Market Size, Share, and Analysis, By Product and Service (Metabolomics Instruments, Separation Tools, and Detection Tools), By Application (Biomarker discovery, Drug Discovery, Personalized Medicine, Toxicology Testing, Nutrigenomics, Functional Genomics, Other Applications), By Indication (Cancer, Neurological Disorders, Cardiovascular Diseases, Inborn Errors of Metabolism, Other), By End-User (Contract Research Organizations, Academic and Research Institutes, Pharmaceutical and Biotechnology Companies, Other End-users) and By Region (North America, Europe, Asia-Pacific, And Rest of the World) And Regional Forecast 2024-2034

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Abstracts

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PRODUCT OVERVIEW

Metabolomics Market is anticipated to grow at a CAGR of 13.8%% in the forecast period (2024-2034), with the market size valued at USD 3 billion in 2023 and projected to reach USD 12.3 billion by 2034.

Metabolomics is the comprehensive study of metabolites, the small molecules involved in metabolic processes within a biological organism. This field focuses on analyzing and quantifying metabolic profiles to understand both normal and abnormal physiological conditions. By employing advanced techniques such as mass spectrometry and nuclear magnetic resonance (NMR) spectroscopy, metabolomics provides insights into biomarker identification, pharmaceutical research, and personalized healthcare. It enables the detection of biochemical changes associated with diseases, facilitating early diagnosis and personalized treatment strategies. Additionally, metabolomics contributes to fields such as toxicology testing, nutrigenomics, and functional genomics by elucidating metabolic responses and interactions. Overall, metabolomics bridges the gap between genotype and phenotype, offering a comprehensive understanding of metabolic pathways and their implications for health and disease.

MARKET HIGHLIGHTS

Metabolomics Market is expected to reach \$12.3 billion, with a growth rate of 13.8% during the forecast period. This growth is driven by the increasing importance of personalized medicine and precision health. The rising incidence of chronic diseases and the need for early and accurate diagnosis are major factors fueling the demand for comprehensive metabolic analysis. Technological advancements in mass spectrometry and NMR spectroscopy enhance data accuracy and analytical capabilities, further propelling market growth. Moreover, growing research activities and collaborations in the pharmaceutical and biotechnology sectors are boosting the market. The integration of metabolomics with genomics and proteomics is also expanding the applications in holistic health solutions, driving future market expansion.

Metabolomics Market Segments:

By Product and Services

Metabolomics Instruments

Separation Tools

Detection Tools

By Application

Biomarker discovery

Drug Discovery

Personalized Medicine

Toxicology Testing

Nutrigenomics

Functional Genomics

Other Applications

By Indication

Cancer

Neurological Disorders

Cardiovascular Diseases

Inborn Errors of Metabolism

Other

By End User

Contract Research Organizations

Academic and Research Institutes

Pharmaceutical and Biotechnology Companies

Other End-users

MARKET DYNAMICS

Growth Drivers

Rising Incidence of Chronic Diseases Boost Demand for Advanced Diagnostic Tools

Increasing R&D Investments in Drug Discovery to Boost Market Growth

Restraint

High Cost of Metabolomics Technologies to Restrict Growth and Development Opportunities

Key Players

Agilent Technologies Inc.

Thermo Fisher Scientific Inc.

Waters Corporation

Bruker Corporation

Bio-Rad Laboratories, Inc.

PerkinElmer Inc.

Metabolon, Inc.

Human Metabolome Technologies Inc.

Shimadzu Corporation

LECO Corporation

Evotec SE

Asuragen Inc.

GeneBio

Danaher Corporation

Sciex (a Danaher Company)

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

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