

Preclinical Imaging Market Size, Share, and Analysis, By Product (Optical Imaging, PET, SPECT, Optical Imaging Reagents, Contrast Agents, and Nuclear Imaging Reagents), By Application (Oncology, Neurology, and Others), By End-User (Pharmaceutical, Imaging Centers, and Others), 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

Preclinical Imaging Market is anticipated to exhibit a Compound Annual Growth Rate (CAGR) of 5% during the forecast span from 2024 to 2034. In 2023, the market size was assessed at USD 2.8 billion and is projected to reach USD 4.7 billion by the completion of 2034.

Preclinical imaging is a branch of medical imaging that studies biological procedures and disorders in tiny animal models, like mice or rats, before performing human trials. Various imaging techniques, such as MRI, PET, CT, and optical imaging, are used to visualize anatomical features, molecular interactions, and physiological activities at the

cellular and molecular levels. Additionally, scientists can use non-invasive imaging techniques to track the progression of disease, assess the efficacy of treatment, and study the underlying causes of illness. Preclinical imaging is important in drug development as it allows researchers to assess new treatments, along with understanding their pharmacokinetics and pharmacodynamics, and make informed decisions before moving on to human trials. As a result, preclinical imaging provides an important link between fundamental research and practical medical applications, as it helps in the transitioning of new treatments.

MARKET HIGHLIGHTS

Preclinical Imaging Market is projected to reach USD 4.7 billion over the forecast period, due to the growth in research & development efforts in the pharmaceutical and biotechnology sectors. The enhanced technology of imaging modalities such as MRI, PET, SPECT, and CT has increased their ability to study molecular and cellular processes in small animal models. In addition, the rising need for personalized medicine and accurate treatments has led to high investment in preclinical imaging for drug discovery and development. Moreover, the increasing occurrence of chronic illnesses such as cancer and neurological disorders highlights the importance of gaining a deeper understanding of disease mechanisms, which further promotes the adoption of preclinical imaging. Therefore, the preclinical imaging market is expected to grow due to the growing use of advanced imaging technologies and the higher investment in biomedical research.

Preclinical Imaging Market Segments:

By Product

Optical Imaging

PET

SPECT

Optical Imaging Reagents

Contrast Agents

Nuclear Imaging Reagents

By Application

Oncology

Neurology

Others

By End-User

Pharmaceutical

Imaging Centers

Others

MARKET DYNAMICS

Growth Drivers

Advancements in Preclinical Imaging Technology to Drive Growth in the Preclinical Imaging Market

Increasing Prevalence of Chronic Diseases Act as a Catalyst for Market Growth

Restraint

Cost of Equipment and Maintenance in the Preclinical Imaging Market Will Impact the Growth

Key Players

Bruker Corporation

PerkinElmer, Inc.

Siemens Healthineers AG

GE Healthcare

MR Solutions

Aspect Imaging Ltd.

Mediso Medical Imaging Systems

MILabs B.V.

TriFoil Imaging

Agilent Technologies, Inc.

Fujifilm Holdings Corporation

Thermo Fisher Scientific Inc.

Miltenyi Biotec

LI-COR Biosciences

Perceptive Instruments Ltd.

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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