

In-vivo CRO Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global in-vivo CRO market size reached US\$ 4.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.4 Billion by 2028, exhibiting a growth rate (CAGR) of 8.07% during 2023-2028.

In-vivo contract research organizations (CROs) are institutions that conduct extensive biopharmaceutical research on a contractual basis. They support pharmaceutical and biotechnology companies in formulating effective drugs, vaccines, and medical devices by providing outsourcing services. As compared to in-vitro CRO, in-vivo CRO deals with the research performed within the living organism and conducts human clinical trials to assess the safety and efficacy of the drugs instead of organizing examinations on removed cells and tissues. They aid research institutions in managing complex medical testing, developing effective medications at minimal costs, and optimizing workflow by avoiding delays caused by hiring, fundraising, and clinical preparations. As a result, in-vivo CRO finds extensive application in pain management, oncology, and treating central nervous system (CNS) injuries and other disorders. Currently, they are bifurcated into rodent- and non-rodent-based types.

In-vivo CRO Market Trends:

The increasing prevalence of various cardiovascular ailments, especially amongst the geriatric population, and the growing need for effective medications and novel oncology-based therapies for diagnosis and treatment are primarily driving the market growth. Additionally, the rising demand for clinical-scale manufacturing of active pharmaceutical ingredients (APIs) by contract research, development, and manufacturing organizations

(CRDMOs) and the shifting inclination toward biosimilars over format monoclonal antibodies are acting as other growth-inducing factors. Furthermore, the fueling health concerns have prompted biotechnology companies to engineer effective novel vaccines in collaboration with CRO, especially during the COVID-19 pandemic, which is contributing to the market growth. Moreover, the extensive utilization of in-vivo CRO to perform toxicology and pharmacokinetic studies during preclinical activities is impelling the market growth. Apart from this, the advent of bioequivalence, rapid growth in generics, ongoing patent expirations, and continuous research and development (R&D) activities to engineer personalized medicines are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global in-vivo CRO market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, GLP type and indication.

Breakup by Type:

Rodent

Rats

Mice

Others

Non-Rodent

Breakup by GLP Type:

Non-GLP

In House

Outsourcing

GLP Toxicology

In House
Outsourcing

Breakup by Indication:

Autoimmune/Inflammation Conditions

Rheumatoid Arthritis
Multiple Sclerosis
Osteoarthritis
Irritable Bowel Syndrome
Others

Pain Management

Chronic Pain
Acute Pain

Oncology

Blood Cancer
Solid Tumor
Others

CNS Conditions

Epilepsy
Parkinson's Disease
Huntington's Disease
Stroke
Traumatic Brain Injury
ALS
Muscle Regeneration
Others

Diabetes
Obesity
Others

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 Charles River Laboratories International Inc., Evotec SE, ICON plc, Iris Pharma (Abionyx Pharma), Labcorp Drug Development (Laboratory Corporation of America Holdings), North American Science Associates LLC, Parexel International Corporation, Pharmaceutical Product Development Inc. (Thermo Fisher Scientific Inc.), Pronexus Analytical AB, Syneos Health and WuXi AppTec.

Key Questions Answered in This Report:

How has the global in-vivo CRO market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global in-vivo CRO market?
What are the key regional markets?
What is the breakup of the market based on the type?
What is the breakup of the market based on the GLP type?
What is the breakup of the market based on the indication?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global in-vivo CRO market and who are the key players?
What is the degree of competition in the industry?

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