

Global Bioanalytical Testing Services in CRO Market Size Study, By Molecule (Small, Large), By Test (Bioavailability, Bioequivalence, ADME, Biomarker Testing, Cell-based Assay, Virology Testing, Other Tests), By Workflow (Sample Collection & Preparation, Method Development & Validation, Sample Analysis, Genomic & Molecular Techniques, Other Workflow Processes), By End Use (Pharma & Biopharma Companies, Academic & Research Institutes, Others), and Regional Forecasts 2022-2032

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Abstracts

The Global Bioanalytical Testing Services in CRO Market was valued at USD 3.07 billion in 2023 and is expected to expand at a CAGR of 9.02% from 2024 to 2032. The rapid expansion of biopharmaceutical research, the rising complexity of biologics and biosimilars, and stringent regulatory requirements are key drivers of this market. Bioanalytical testing services in Contract Research Organizations (CROs) provide an essential function in the drug development process, ensuring drug safety, efficacy, and regulatory compliance. Increasing pharmaceutical R&D expenditures, coupled with the rising demand for outsourcing bioanalytical services, further strengthen the market growth.

The rising prevalence of chronic diseases and the increasing number of clinical trials have resulted in higher demand for bioanalytical services globally. CROs specializing in bioanalytical testing offer specialized expertise in mass spectrometry, chromatography, ligand binding assays, and genomic analysis, supporting the pharmaceutical industry's

need for faster and more cost-efficient drug development. The growing adoption of advanced technologies, such as liquid chromatography-tandem mass spectrometry (LC-MS/MS), immunoassays, and digital laboratory solutions, has also accelerated the market expansion.

The market's growth is further bolstered by the expansion of CROs in emerging markets, particularly in Asia-Pacific and Latin America, where regulatory landscapes are evolving to align with global standards. Major pharmaceutical firms are increasingly partnering with bioanalytical CROs to streamline drug development, optimize costs, and enhance efficiency. Additionally, stringent guidelines from regulatory agencies like the FDA, EMA, PMDA, and ICH have heightened the need for advanced method development, validation, and pharmacokinetic (PK) testing, increasing CRO engagement.

Regionally, North America dominates the market due to its strong presence of pharmaceutical and biotechnology companies, high R&D investments, and well-established CROs offering cutting-edge bioanalytical services. However, Asia-Pacific is expected to witness the fastest CAGR due to low operational costs, increasing outsourcing of clinical trials, and advancements in biosimilar research. The European market is driven by strict regulatory standards and growing collaborations between biotech firms and CROs. Meanwhile, Latin America and the Middle East & Africa are also experiencing steady market expansion due to rising clinical research activities and investments in healthcare infrastructure.

Major Market Players Included in this Report:

Thermo Fisher Scientific Inc.

ICON Plc

Charles River Laboratories International

Wuxi AppTec

IQVIA

Syneos Health

SGS SA

Labcorp

Intertek Group Plc

Pace Analytical Services LLC

Medpace

BioAgilytix Labs

PPD Inc.

Frontage Laboratories

Covance

The Detailed Segments and Sub-segments of the Market are Explained Below:

By Molecule:

Small Molecule

Large Molecule

LC-MS Studies

Immunoassays

Pharmacokinetics (PK)

ADA Assay

Others

By Test:

ADME

In-Vivo

In-Vitro

Pharmacokinetics (PK)

Pharmacodynamics (PD)

Bioavailability

Bioequivalence

Biomarker Testing

Cell-based Assay

Virology Testing

Other Tests

By Workflow:

Sample Collection & Preparation

Sample Collection, Handling & Storage

Protein Precipitation

Liquid-Liquid Extraction

Solid Phase Extraction

Others

Method Development & Validation

Sample Analysis

Hyphenated Techniques

Chromatographic Techniques

Electrophoresis

Ligand Binding Assay

Mass Spectrometry

Spectroscopic Techniques

Nuclear Magnetic Resonance (NMR)

Others

Genomic & Molecular Techniques

Polymerase Chain Reaction (PCR)

Next-Generation Sequencing (NGS)

Others

Other Workflow Processes

By End Use:

Pharma & Biopharma Companies

Academic & Research Institutes

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

U.K.

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Netherlands

Switzerland

Asia Pacific

India

China

Japan

South Korea

Australia

Thailand

Indonesia

Malaysia

Singapore

Taiwan

Latin America

Brazil

Argentina

Colombia

Middle East & Africa (MEA)

South Africa

Saudi Arabia

UAE

Kuwait

Israel

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed geographical landscape with country-level market insights.

Competitive landscape with major player profiles, key strategies, and revenue analysis.

Analysis of key business strategies and recommendations on future market approach.

Demand-side and supply-side analysis of the market, identifying growth trends and potential investment opportunities.

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