

Global Cardiac Biomarker Testing Market Report and Forecast 2024-2032

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Report description:

Global Cardiac Biomarker Testing Market Report and Forecast 2024-2032

Global Cardiac Biomarker Testing Market Outlook

The global cardiac biomarker testing market size was valued at USD 4.7 billion in 2023, driven by the increasing prevalence of cardiovascular diseases across the globe. The market size is anticipated to grow at a CAGR of 8.8% during the forecast period of 2024-2032 to achieve a value of USD 10 billion by 2032.

Cardiac Biomarker Testing: Introduction

Cardiac biomarker testing, also known as cardiac marker testing, refers to the measurement of specific substances or molecules in the blood that are released into the bloodstream when there is damage to the heart or its muscles. These biomarkers play a crucial role in the diagnosis, risk assessment, and management of various cardiac conditions, including heart attacks (myocardial infarctions), heart failure, and other cardiovascular diseases. Cardiac biomarker testing provides valuable information to healthcare professionals for timely intervention and patient care. Some common cardiac biomarkers include:

- **Troponin:** Troponin is one of the most sensitive and specific cardiac biomarkers. It is released into the bloodstream when there is damage to the heart muscle, such as during a heart attack. Troponin levels rise within hours of cardiac injury and remain elevated for several days.
- **Creatine Kinase-MB (CK-MB):** CK-MB is an enzyme found predominantly in heart muscle cells. Elevated CK-MB levels indicate heart muscle damage and are often used in conjunction with troponin measurements to confirm a heart attack.
- **Myoglobin:** Myoglobin is a protein found in heart and skeletal muscles. It is a less specific cardiac biomarker compared to troponin and CK-MB, but elevated myoglobin levels can suggest heart muscle damage.

Key Trends in the Global Cardiac Biomarker Testing Market

Here are some key trends in the market:

- **The field of cardiac biomarker testing continues to evolve with advancements in technology, changes in healthcare practices, and an emphasis on early diagnosis and precision medicine.** As of my last knowledge update in September 2021, here are some notable trends in the cardiac biomarker testing market:
- **High-Sensitivity Cardiac Troponin Assays:** High-sensitivity cardiac troponin assays are becoming more widespread. These assays

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can detect even minor elevations in troponin levels, enabling earlier diagnosis of acute myocardial infarction (heart attack) and improved risk assessment.

- Multi-Biomarker Panels: Rather than relying solely on a single biomarker, healthcare providers are increasingly using multi-biomarker panels. Combining different cardiac biomarkers provides a more comprehensive picture of a patient's cardiac health and can enhance diagnostic accuracy.

- Point-of-Care Testing (POCT): Point-of-care cardiac biomarker testing is gaining popularity for rapid assessment of cardiac conditions in emergency departments and ambulances. POCT devices allow for faster decision-making and triage of patients with chest pain or suspected heart attacks.

- Personalized Medicine: The concept of personalized medicine is extending to cardiac biomarker testing. Genetic factors and individual patient profiles are increasingly considered when interpreting biomarker results and tailoring treatment plans.

- Use of Artificial Intelligence (AI): AI and machine learning algorithms are being employed to analyze complex biomarker data, predict cardiac events, and assist in risk stratification. These technologies can enhance the precision of diagnosis and treatment decisions.

- Expanded Clinical Applications: Beyond diagnosing heart attacks and heart failure, cardiac biomarker testing is finding applications in predicting and monitoring other cardiovascular conditions, such as atrial fibrillation, cardiac arrhythmias, and valvular heart disease.

Global Cardiac Biomarker Testing Market Segmentations

The market can be categorized into testing type, technology, biomarker type, applications, end user, and region.

Market Breakup by Testing Type

- Point of Care Testing (POCT)
- Laboratory Testing

Market Breakup by Technology

- Immunoassay
- Clinical Chemistry
- Molecular Diagnostics
- Others

Market Breakup by Biomarker Type

- Creatine Kinase (CK-MB)
- Troponins
- Myoglobin
- Natriuretic Peptides (BNP and NT-proBNP)
- Ischemia Modified Albumins
- Other Biomarkers

Market Breakup by Applications

- Myocardial Infraction
- Congestive Heart Failure
- Acute Coronary Syndrome
- Atherosclerosis
- Other Applications

Market Breakup by End User

- Hospitals and Clinics
- Diagnostic Laboratories
- Ambulatory Surgical Centres

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- Research Institutes
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Cardiac Biomarker Testing Market Overview

Here are some key drivers for the cardiac biomarker testing market:

- Rising Cardiovascular Disease Burden: Cardiovascular diseases, including coronary artery disease, heart failure, and arrhythmias, continue to be a leading cause of morbidity and mortality globally. The increasing prevalence of these conditions drives the demand for cardiac biomarker testing for early diagnosis and management.
- Aging Population: The aging demographic trend results in a higher incidence of heart-related conditions, making cardiac biomarker testing essential for the elderly population.
- Preventive Medicine: There is a growing emphasis on preventive healthcare, and cardiac biomarker testing plays a role in identifying individuals at risk of developing cardiovascular diseases, allowing for early intervention and lifestyle modifications.
- Technological Advancements: Ongoing advancements in biomarker assay technologies, including high-sensitivity assays, enable more accurate and earlier detection of cardiac biomarkers, improving diagnostic capabilities.
- Point-of-Care Testing (POCT): The availability of point-of-care cardiac biomarker testing devices allows for rapid assessment and triage of patients in emergency departments and ambulances, leading to quicker treatment decisions.
- Personalized Medicine: Cardiac biomarker testing is increasingly used to tailor treatment plans to individual patient profiles, including genetic factors and biomarker levels, optimizing therapy and outcomes.

Cardiac Biomarker Testing Market: Competitor Landscape

The key features of the market report include patent analysis, grants analysis, clinical trials analysis, funding and investment analysis, partnerships, and collaborations analysis by the leading key players. The major companies in the market are as follows:

- Abbott Laboratories
- F. Hoffmann-La Roche Ltd.
- Siemens Healthineers AG
- Beckman Coulter, Inc. (Danaher Corporation)
- bioMérieux SA
- Ortho Clinical Diagnostics
- Becton, Dickinson and Company (BD)
- Thermo Fisher Scientific Inc.
- Randox Laboratories Ltd.
- Bio-Rad Laboratories, Inc.
- Singulex Inc.
- Abbott
- LSI Medience Corporation
- Trivitron Healthcare
- Qingdao Rich Biotechnology Co., Ltd.
- Werfen
- Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
- Guangzhou Wondfo Biotech Co., Ltd.

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-□Abnova Corporation
-□Merck KGaA

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*Additional insights provided are customisable as per client requirements.

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