

Cell-based Assay Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2019-2024

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Abstracts

The global cell-based assay market reached a value of US\$ 14 Billion in 2018. The market is currently being catalysed by a number of factors, this includes rising investments in research and development, adoption of high throughput screening methods, increasing prevalence of various chronic diseases, growth in drug discovery activities, and the various advantages that cell-based assays offer over alternative technologies. The market value is further expected to reach more than US\$ 23 Billion by 2024, exhibiting a CAGR of 8.6% during 2019-2024.

Cell-based assays refer to any experiment that use live cells. The basic techniques include a variety of assays that can be used for the purpose of measuring cell toxicity, proliferation, motility as well as production of a particular cellular product and cellular morphology. Cell-based assays provide a closer representation of the real life model since it employs live cells during experimentation. Cell-based assays have grown to become a versatile tool in healthcare research and development, particularly in the experiments which are designed to understand functionalities of specific cells like antibodies or drug efficacy on a group of cells.

There has been a significant increase in R&D funding by various public and private organisations so as to develop better and safer drugs. Moreover, technological advancements in cell-based assays have enabled researchers to start using this technology for drug discovery and toxicology studies. Another major factor catalysing the growth of the market is the rising prevalence of lifestyle diseases such as arthritis, diabetes, epilepsy, cancer, cardiovascular diseases, etc. which still have large unmet needs and have led to continuous investments in R&D. In addition, an increase in the adoption of the cell-based assay techniques for high throughput screening methods like

toxicity studies, drug screening, in vitro testing, etc. are further driving this market.

Market Summary:

Based on the product type, the market has been segmented as consumables, instruments, services and software. Currently, the consumables segment dominates the market, holding the largest share.

Based on the technology, the market has been segmented as automated handling, flow cytometry, label-free-detection, high-throughput screening, and others.

Based on the application, the market has been segmented as drug discovery, basic research, ADME studies, predictive toxicology and others. Currently, the drug discovery segment dominates the market, holding the largest share.

On the basis of end-user, the market has been segmented as pharmaceutical and biotechnology companies; academic and government institutions; contract research organizations; and others.

Region-wise, the market has been segmented into North America, Europe, Asia Pacific, Middle East and Africa, and Latin America. Amongst these, North America is the leading market, accounting for the majority of the market share.

The competitive landscape of the market has also been examined with some of the key players being Becton Dickinson, Danaher Corporation, Thermo Fisher Scientific Inc., General Electric Company, Merck KGaA, Perkinelmer, Inc., Charles River Laboratories, Inc., Lonza Group Ltd., Cell Signaling Technology, Inc., Promega Corporation, Cisbio Bioassays, Cell Biolabs, Inc., Bio-Rad Laboratories, Inc., Corning, Inc. and F. Hoffmann-La Roche Ltd.

This report provides a deep insight into the global cell-based assay market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the cell-based assay industry in any manner.

Key Questions Answered in This Report:

How has the global cell-based assay market performed so far and how will it perform in the coming years?

What are the key regions in the global cell-based assay market?

What are the key product and service types in the global cell-based assay market?

What are the major technologies in the global cell-based assay market?

What are the major application segments in the global cell-based assay market?

What are the key end-use segments in the global cell-based assay market?

What are the various stages in the value chain of the global cell-based assay industry?

What are the key driving factors and challenges in the global cell-based assay industry?

What is the structure of the global cell-based assay industry and who are the key players?

What is the degree of competition in the global cell-based assay industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CELL-BASED ASSAY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Market Breakup by Product and Services
- 5.4 Market Breakup by Technology
- 5.5 Market Breakup by Application
- 5.6 Market Breakup by End-User
- 5.7 Market Breakup by Region
- 5.8 Market Forecast
- 5.9 SWOT Analysis
 - 5.9.1 Overview
 - 5.9.2 Strengths
 - 5.9.3 Weaknesses
 - 5.9.4 Opportunities
 - 5.9.5 Threats

- 5.10 Value Chain Analysis
- 5.11 Porters Five Forces Analysis
 - 5.11.1 Overview
 - 5.11.2 Bargaining Power of Buyers
 - 5.11.3 Bargaining Power of Suppliers
 - 5.11.4 Degree of Competition
 - 5.11.5 Threat of New Entrants
 - 5.11.6 Threat of Substitutes

6 MARKET BREAKUP BY PRODUCT AND SERVICES

- 6.1 Consumables
 - 6.1.1 Reagents and Media
 - 6.1.1.1 Market Trends
 - 6.1.1.2 Market Forecast
 - 6.1.2 Cells and Cell Lines
 - 6.1.2.1 Market Trends
 - 6.1.2.2 Market Forecast
 - 6.1.3 Probes and Labels
 - 6.1.3.1 Market Trends
 - 6.1.3.2 Market Forecast
- 6.2 Instruments
 - 6.2.1 Microplates
 - 6.2.1.1 Market Trends
 - 6.2.1.2 Market Forecast
 - 6.2.2 Microplate Readers
 - 6.2.2.1 Market Trends
 - 6.2.2.2 Market Forecast
 - 6.2.3 High Throughput Screening
 - 6.2.3.1 Market Trends
 - 6.2.3.2 Market Forecast
 - 6.2.4 Liquid Handling Systems
 - 6.2.4.1 Market Trends
 - 6.2.4.2 Market Forecast
- 6.3 Services
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 6.4 Software
 - 6.4.1 Market Trends

6.4.2 Market Forecast

7 MARKET BREAKUP BY TECHNOLOGY

7.1 Automated Handling

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Flow Cytometry

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Label-Free Detection

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 High-Throughput Screening

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Drug Discovery

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Basic Research

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 ADME Studies

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Predictive Toxicology

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 Others

8.5.1 Market Trends

8.5.2 Market Forecast

9 MARKET BREAKUP BY END-USER

9.1 Pharmaceutical and Biotechnology Companies

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Academic and Government Institutions

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Contract Research Organizations

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Others

9.4.1 Market Trends

9.4.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Europe

10.2.1 Market Trends

10.2.2 Market Forecast

10.3 Asia Pacific

10.3.1 Market Trends

10.3.2 Market Forecast

10.4 Middle East and Africa

10.4.1 Market Trends

10.4.2 Market Forecast

10.5 Latin America

10.5.1 Market Trends

10.5.2 Market Forecast

11 COMPETITIVE LANDSCAPE

11.1 Market Structure

11.2 Key Players

11.3 Profiles of Key Players

11.3.1 Becton Dickinson

11.3.2 Danaher Corporation

- 11.3.3 Thermo Fisher Scientific Inc.
- 11.3.4 General Electric Company
- 11.3.5 Merck Group
- 11.3.6 PerkinElmer
- 11.3.7 Charles River Laboratories, Inc.
- 11.3.8 Lonza Group Ltd.
- 11.3.9 Cell Signaling Technology
- 11.3.10 Promega Corporation
- 11.3.11 Cisbio Bioassays
- 11.3.12 Cell Biolabs, Inc.
- 11.3.13 Discoverx Corporation
- 11.3.14 Bio-Rad Laboratories, Inc.
- 11.3.15 Corning, Inc.
- 11.3.16 Hoffmann-La Roche Ltd

List Of Tables

LIST OF TABLES

Table 1: Global: Cell-Based Assay Market: Key Industry Highlights, 2018 and 2024

Table 2: Global: Cell-Based Assay Market Forecast: Breakup by Product and Service Type (in Million US\$), 2019-2024

Table 3: Global: Cell-Based Assay Market Forecast: Breakup by Technology (in Million US\$), 2019-2024

Table 4: Global: Cell-Based Assay Market Forecast: Breakup by Application (in Million US\$), 2019-2024

Table 5: Global: Cell-Based Assay Market Forecast: Breakup by End-User (in Million US\$), 2019-2024

Table 6: Global: Cell-Based Assay Market Forecast: Breakup by Region (in Million US\$), 2019-2024

Table 7: Global: Cell-Based Assay Market: Competitive Structure

Table 8: Global: Cell-Based Assay Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Cell-Based Assay Market: Major Drivers and Challenges

Figure 2: Global: Cell-Based Assay Market: Sales Value (in Billion US\$), 2011-2018

Figure 3: Global: Cell-Based Assay Market: Breakup by Product and Services (in %), 2018

Figure 4: Global: Cell-Based Assay Market: Breakup by Technology (in %), 2018

Figure 5: Global: Cell-Based Assay Market: Breakup by Application (in %), 2018

Figure 6: Global: Cell-Based Assay Market: Breakup by End-User (in %), 2018

Figure 7: Global: Cell-Based Assay Market: Breakup by Region (in %), 2018

Figure 8: Global: Cell-Based Assay Market Forecast: Sales Value (in Billion US\$), 2019-2024

Figure 9: Global: Cell-Based Assay Industry: SWOT Analysis

Figure 10: Global: Cell-Based Assay Industry: Value Chain Analysis

Figure 11: Global: Cell-Based Assay Industry: Porter's Five Forces Analysis

Figure 12: Global: Cell-Based Assay (Consumables) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 13: Global: Cell-Based Assay (Consumables) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 14: Global: Cell-Based Assay (Instruments) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 15: Global: Cell-Based Assay (Instruments) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 16: Global: Cell-Based Assay (Services) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 17: Global: Cell-Based Assay (Services) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 18: Global: Cell-Based Assay (Automated Handling) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 19: Global: Cell-Based Assay (Automated Handling) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 20: Global: Cell-Based Assay (Flow Cytometry) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 21: Global: Cell-Based Assay (Flow Cytometry) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 22: Global: Cell-Based Assay (Label-Free Detection) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 23: Global: Cell-Based Assay (Label-Free Detection) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 24: Global: Cell-Based Assay (High-Throughput Screening) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 25: Global: Cell-Based Assay (High-Throughput Screening) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 26: Global: Cell-Based Assay (Other Technologies) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 27: Global: Cell-Based Assay (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 28: Global: Cell-Based Assay (Drug Discovery) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 29: Global: Cell-Based Assay (Drug Discovery) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 30: Global: Cell-Based Assay (Basic Research) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 31: Global: Cell-Based Assay (Basic Research) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 32: Global: Cell-Based Assay (ADME Studies) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 33: Global: Cell-Based Assay (ADME Studies) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 34: Global: Cell-Based Assay (Predictive Toxicology) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 35: Global: Cell-Based Assay (Predictive Toxicology) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 36: Global: Cell-Based Assay (Other Applications) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 37: Global: Cell-Based Assay (Other Applications) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 38: Global: Cell-Based Assay (Pharmaceutical and Biotechnology Companies) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 39: Global: Cell-Based Assay (Pharmaceutical and Biotechnology Companies) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 40: Global: Cell-Based Assay (Academic and Government Institutions) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 41: Global: Cell-Based Assay (Academic and Government Institutions) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 42: Global: Cell-Based Assay (Contract Research Organizations) Market: Sales

Value (in Million US\$), 2011 & 2018

Figure 43: Global: Cell-Based Assay (Contract Research Organizations) Market

Forecast: Sales Value (in Million US\$), 2019-2024

Figure 44: Global: Cell-Based Assay (Other End-Users) Market: Sales Value (in Million US\$), 2011 & 2018

Figure 45: Global: Cell-Based Assay (Other End-Users) Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 46: North America: Cell-Based Assay Market: Sales Value (in Million US\$), 2011 & 2018

Figure 47: North America: Cell-Based Assay Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 48: Europe: Cell-Based Assay Market: Sales Value (in Million US\$), 2011 & 2018

Figure 49: Europe: Cell-Based Assay Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 50: Asia Pacific: Cell-Based Assay Market: Sales Value (in Million US\$), 2011 & 2018

Figure 51: Asia Pacific: Cell-Based Assay Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 52: Middle East and Africa: Cell-Based Assay Market: Sales Value (in Million US\$), 2011 & 2018

Figure 53: Middle East and Africa: Cell-Based Assay Market Forecast: Sales Value (in Million US\$), 2019-2024

Figure 54: Latin America: Cell-Based Assay Market: Sales Value (in Million US\$), 2011 & 2018

Figure 55: Latin America: Cell-Based Assay Market Forecast: Sales Value (in Million US\$), 2019-2024

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