

# **Biotechnology Reagents Market by Technology, Applications and End-Users - Current Trends, Opportunities and Global Forecasts to 2016**

<https://marketpublishers.com/r/BCCB4E0C933EN.html>

Date: July 2012

Pages: 320

Price: US\$ 5,650.00 (Single User License)

ID: BCCB4E0C933EN

## **Abstracts**

### **Biotechnology Reagents Market by Technology (PCR, Cell Culture, Expression & Transfection, Chromatography, Mass Spectrometry, Electrophoresis, & Flow Cytometry), Applications (Protein Purification, Gene Expression, DNA & RNA Analysis, & Drug Testing) and End-Users - Current Trends, Opportunities and Global Forecasts to 2016**

Biotechnology reagents are the substances or compounds used to detect or synthesize another substance in order to provide a test reading. These reagents are used in the field of research, diagnosis, bioscience, and education.

The biotechnology reagent market is vast; it consists of several technologies such as PCR, cell culture, IVD, expression and transfection, chromatography, spectrometry, electrophoresis, and flow cytometry. This report studies the biotechnology reagents market, by technology, end-users, and applications. The biotechnology reagents market, by technology studied in this report are segmented as life science reagents and analytical reagents; of which life science segment accounted for the largest share of 59.37% of the total market in 2011. The global biotechnology reagents market was valued at \$40.3 billion in 2011 and is expected to reach \$59.3 billion by 2016; growing at a CAGR of 8% from 2011 to 2016.

The biotechnology reagents market is driven by the increasing use of reagents in therapeutics, basic research and commercial applications. The demand for biotechnology reagents is mainly dependent upon the growth of the biotechnology instrumentation market. The biotechnology instrumentation market continues to witness significant growth due to an increase in the number of biotechnology firms around the

globe and increase in research and development expenditure by the biotechnology companies, thus augmenting the demand for biotechnology instruments. Continual product developments are being witnessed in various industries, such as pharmaceutical/bio-pharmaceutical, agri-biotech, and food and beverages; this is expected to facilitate market growth.

North America dominated the biotechnology reagents market with 46.28% share in 2011. Successful completion of the first phase of the Human Genome Project, ahead of schedule, has given rise in the U.S. reagent market. Investments, government funding, and new products are driving the reagents market in the U.S. The Asian market, however, shows greater opportunities, when compared to other regions, with the highest CAGR of 11.8% from 2011 to 2016; due to increased research outsourcing activities in the life technology field.

Major players in the global biotechnology reagents market include Life Technologies, (U.S.), Bio-Rad (U.S.), Thermo Fisher Scientific (U.S.), Water Corporation (U.S.), Sigma-Aldrich (U.S.), Agilent Technologies Inc. (U.S.), Betcon Dickinson (U.S.), Beckman Coulter (U.S.), Roche (Switzerland), and Abbott (U.S.).

## **Scope of the Report**

This biotechnology reagents market report will enable strategic understanding of the following key segments of the market:

Global biotechnology reagents market, by technology

Life science

PCR

Master mixes

Kits

Individual reagent

Cell culture

Sera

Media and reagents

IVD

Microbiology culture

Hematology

Immunoassay

Clinical chemistry

Molecular diagnostics

Expression and transfection

Analytical

Chromatography

By reagents type

Solvent

Chemical

Adsorbents

By types of chromatography

Liquid chromatography

Gas chromatography

Ion chromatography

Super critical fluid chromatography

Mass Spectrometry

Proteomics

Drug discovery

Clinical testing

Genomics

Others

Electrophoresis

Gel

Dye

Buffer

Flow Cytometry

Cell-based flow cytometry

Bead-based flow cytometry

Global biotechnology reagents market, by applications

Protein synthesis and purification

Gene expression

DNA and RNA analysis

Drug testing

## Biotechnology reagents market, by geography

North America

Europe

Asia

ROW

This biotechnology reagents report forecasts the size of the market over a period of five years (2011-2016). The report analysis key trends of the market, and segments the biotechnology reagents market by segments and into various geographic regions, countries. It also discusses the key market drivers, restraints and opportunities of the market and its sub markets. The report's 'Strategy' section sketches the competitive landscape, featuring about 26 company profiles.

## Contents

### 1 INTRODUCTION

- 1.1 KEY TAKE-AWAYS
- 1.2 REPORT DESCRIPTION
- 1.3 MARKETS COVERED
- 1.4 STAKEHOLDERS
- 1.5 RESEARCH METHODOLOGY
  - 1.5.1 MARKET SIZE
  - 1.5.2 MARKET SHARE
  - 1.5.3 KEY DATA POINTS FROM SECONDARY SOURCES
  - 1.5.4 KEY DATA POINTS FROM PRIMARY SOURCES
  - 1.5.5 ASSUMPTIONS

### 2 EXECUTIVE SUMMARY

### 3 MARKET OVERVIEW

- 3.1 INTRODUCTION
- 3.2 MARKET SEGMENTATION
- 3.3 MARKET DYNAMICS
  - 3.3.1 DRIVERS
    - 3.3.1.1 High research and development expenditure by biotechnology companies
    - 3.3.1.2 Increase in number of biotechnology firms
    - 3.3.1.3 Growth in biopharmaceuticals
    - 3.3.1.4 Advancement in technology
    - 3.3.1.5 Protein profiling on a rise
  - 3.3.2 RESTRAINT
    - 3.3.2.1 High price of biopharmaceuticals
  - 3.3.3 OPPORTUNITIES
    - 3.3.3.1 Stem cell research
    - 3.3.3.2 Environmental applications
- 3.4 BURNING ISSUE
  - 3.4.1 CONTROVERSY ON FEDERAL FUNDING FOR STEM CELL RESEARCH
- 3.5 END-USER ANALYSIS
- 3.6 MARKET SHARE ANALYSIS
  - 3.6.1 LIFE SCIENCES MARKET SHARE ANALYSIS
  - 3.6.2 ANALYTICAL MARKET SHARE ANALYSIS

## **4 LIFE SCIENCES & ANALYTICAL REAGENTS MARKET, BY TECHNOLOGY**

### **4.1 INTRODUCTION**

### **4.2 LIFE SCIENCES**

#### **4.2.1 PCR**

4.2.1.1 Market share analysis

4.2.1.2 Master mixes

4.2.1.3 PCR kits

#### **4.2.2 CELL CULTURE**

4.2.2.1 Market share analysis

4.2.2.2 Sera

4.2.2.3 Media and reagents

4.2.2.3.1 Amino acids & vitamins

4.2.2.3.2 Antibiotics & antimycotics

4.2.2.3.3 Buffers

4.2.2.3.4 Cell dissociation reagents

4.2.2.3.5 Growth supplements

4.2.2.3.6 Others

#### **4.2.3 IVD**

4.2.3.1 Market share analysis

4.2.3.2 Microbiology culture

4.2.3.3 Hematology

4.2.3.4 Immunoassay

4.2.3.5 Clinical chemistry

4.2.3.6 Molecular diagnostics

#### **4.2.4 EXPRESSION & TRANSFECTION**

4.2.4.1 Market share analysis

### **4.3 ANALYTICAL**

#### **4.3.1 CHROMATOGRAPHY**

4.3.1.1 Market share analysis

4.3.1.2 Chromatography, by reagents types

4.3.1.3 Chromatography, by types

4.3.1.3.1 Liquid chromatography

4.3.1.3.2 Gas chromatography

4.3.1.3.3 Ion chromatography

4.3.1.3.4 Supercritical fluid chromatography

#### **4.3.2 MASS SPECTROMETRY**

4.3.2.1 Market share analysis

4.3.2.2 Mass spectrometry market, by applications

#### 4.3.3 ELECTROPHORESIS

4.3.3.1 Market share analysis

4.3.3.1.1 Gel electrophoresis market share analysis

4.3.3.1.2 Capillary electrophoresis market share analysis

4.3.3.2 Gel

4.3.3.3 Dye

4.3.3.4 Buffer

#### 4.3.4 FLOW CYTOMETRY

4.3.4.1 Market share analysis

4.3.4.2 Cell-based flow cytometry

4.3.4.3 Bead-based flow cytometry

## **5 GLOBAL LIFE SCIENCE & ANALYTICAL REAGENTS MARKET, BY APPLICATIONS**

5.1 INTRODUCTION

5.2 PROTEIN SYNTHESIS & PURIFICATION

5.3 GENE EXPRESSION

5.4 DNA & RNA ANALYSIS

5.5 DRUG TESTING

## **6 GEOGRAPHICAL ANALYSIS**

6.1 INTRODUCTION

6.2 NORTH AMERICA

6.3 EUROPE

6.4 ASIA

6.5 ROW

## **7 COMPETITIVE LANDSCAPE**

7.1 ACQUISITIONS

7.2 COLLABORATIONS/AGREEMENTS/PARTNERSHIPS

7.3 NEW PRODUCTS LAUNCH

7.4 OTHERS

## **8 COMPANY PROFILES**



- 8.1 ABBOTT LABORATORIES
  - 8.1.1 OVERVIEW
  - 8.1.2 FINANCIALS
  - 8.1.3 PRODUCTS & SERVICES
  - 8.1.4 STRATEGY
  - 8.1.5 DEVELOPMENTS
- 8.2 AGILENT TECHNOLOGIES INC.
  - 8.2.1 OVERVIEW
  - 8.2.2 FINANCIALS
  - 8.2.3 PRODUCTS & SERVICES
  - 8.2.4 STRATEGY
  - 8.2.5 DEVELOPMENTS
- 8.3 BECKMAN COULTER INC.
  - 8.3.1 OVERVIEW
  - 8.3.2 FINANCIALS
  - 8.3.3 PRODUCTS & SERVICES
  - 8.3.4 STRATEGY
  - 8.3.5 DEVELOPMENTS
- 8.4 BECTON, DICKINSON AND COMPANY (BD)
  - 8.4.1 OVERVIEW
  - 8.4.2 FINANCIALS
  - 8.4.3 PRODUCTS & SERVICES
  - 8.4.4 STRATEGY
  - 8.4.5 DEVELOPMENTS
- 8.5 BIOMERIEUX
  - 8.5.1 OVERVIEW
  - 8.5.2 FINANCIALS
  - 8.5.3 PRODUCTS & SERVICES
  - 8.5.4 STRATEGY
  - 8.5.5 DEVELOPMENTS
- 8.6 BIO-RAD LABORATORIES INC.
  - 8.6.1 OVERVIEW
  - 8.6.2 FINANCIALS
  - 8.6.3 PRODUCTS & SERVICES
  - 8.6.4 STRATEGY
  - 8.6.5 DEVELOPMENTS
- 8.7 GE HEALTHCARE
  - 8.7.1 OVERVIEW
  - 8.7.2 FINANCIALS

- 8.7.3 PRODUCTS & SERVICES
- 8.7.4 STRATEGY
- 8.7.5 DEVELOPMENTS
- 8.8 HOEFER INC.
  - 8.8.1 OVERVIEW
  - 8.8.2 FINANCIALS
  - 8.8.3 PRODUCTS & SERVICES
  - 8.8.4 STRATEGY
  - 8.8.5 DEVELOPMENTS
- 8.9 LIFE TECHNOLOGIES CORPORATION
  - 8.9.1 OVERVIEW
  - 8.9.2 FINANCIALS
  - 8.9.3 PRODUCTS & SERVICES
  - 8.9.4 STRATEGY
  - 8.9.5 DEVELOPMENTS
- 8.10 LONZA GROUP LTD.
  - 8.10.1 OVERVIEW
  - 8.10.2 FINANCIALS
  - 8.10.3 PRODUCTS & SERVICES
  - 8.10.4 STRATEGY
  - 8.10.5 DEVELOPMENTS
- 8.11 MERIDIAN BIOSCIENCES INC.
  - 8.11.1 OVERVIEW
  - 8.11.2 FINANCIALS
  - 8.11.3 PRODUCTS & SERVICES
  - 8.11.4 STRATEGY
  - 8.11.5 DEVELOPMENTS
- 8.12 MERCK MILLIPORE
  - 8.12.1 OVERVIEW
  - 8.12.2 FINANCIALS
  - 8.12.3 PRODUCTS & SERVICES
  - 8.12.4 STRATEGY
  - 8.12.5 DEVELOPMENTS
- 8.13 PERKINELMER
  - 8.13.1 OVERVIEW
  - 8.13.2 FINANCIALS
  - 8.13.3 PRODUCTS & SERVICES
  - 8.13.4 STRATEGY
  - 8.13.5 DEVELOPMENTS

- 8.14 PROMEGA CORPORATION
  - 8.14.1 OVERVIEW
  - 8.14.2 FINANCIALS
  - 8.14.3 PRODUCTS & SERVICES
  - 8.14.4 STRATEGY
  - 8.14.5 DEVELOPMENTS
- 8.15 QUALITY BIOLOGICAL INC.
  - 8.15.1 OVERVIEW
  - 8.15.2 FINANCIALS
  - 8.15.3 PRODUCTS & SERVICES
  - 8.15.4 STRATEGY
- 8.16 ROCHE DIAGNOSTICS LIMITED
  - 8.16.1 OVERVIEW
  - 8.16.2 FINANCIALS
  - 8.16.3 PRODUCTS & SERVICES
  - 8.16.4 STRATEGY
  - 8.16.5 DEVELOPMENTS
- 8.17 SIEMENS HEALTHCARE
  - 8.17.1 OVERVIEW
  - 8.17.2 FINANCIALS
  - 8.17.3 PRODUCTS & SERVICES
  - 8.17.4 STRATEGY
- 8.18 SIGMA ALDRICH CORPORATION
  - 8.18.1 OVERVIEW
  - 8.18.2 FINANCIALS
  - 8.18.3 PRODUCTS & SERVICES
  - 8.18.4 STRATEGY
  - 8.18.5 DEVELOPMENTS
- 8.19 STRATEGIC DIAGNOSTICS INC. (SDIX)
  - 8.19.1 OVERVIEW
  - 8.19.2 FINANCIALS
  - 8.19.3 PRODUCTS & SERVICES
  - 8.19.4 STRATEGY
  - 8.19.5 DEVELOPMENTS
- 8.20 SYSMEX CORPORATION
  - 8.20.1 OVERVIEW
  - 8.20.2 FINANCIALS
  - 8.20.3 PRODUCTS & SERVICES
  - 8.20.4 STRATEGY

- 8.20.5 DEVELOPMENTS
- 8.21 TAKARA BIO INC.
  - 8.21.1 OVERVIEW
  - 8.21.2 FINANCIALS
  - 8.21.3 PRODUCTS & SERVICES
  - 8.21.4 STRATEGY
  - 8.21.5 DEVELOPMENTS
- 8.22 TECHNE CORPORATION
  - 8.22.1 OVERVIEW
  - 8.22.2 FINANCIALS
  - 8.22.3 PRODUCTS & SERVICES
  - 8.22.4 STRATEGY
  - 8.22.5 DEVELOPMENTS
- 8.23 THERMO FISHER SCIENTIFIC INC.
  - 8.23.1 OVERVIEW
  - 8.23.2 FINANCIALS
  - 8.23.3 PRODUCTS & SERVICES
  - 8.23.4 STRATEGY
  - 8.23.5 DEVELOPMENTS
- 8.24 TOSOH CORPORATION
  - 8.24.1 OVERVIEW
  - 8.24.2 FINANCIALS
  - 8.24.3 PRODUCTS & SERVICES
  - 8.24.4 STRATEGY
  - 8.24.5 DEVELOPMENTS
- 8.25 WATERS CORPORATION
  - 8.25.1 OVERVIEW
  - 8.25.2 FINANCIALS
  - 8.25.3 PRODUCTS & SERVICES
  - 8.25.4 STRATEGY
  - 8.25.5 DEVELOPMENTS
- 8.26 W.R. GRACE & CO.
  - 8.26.1 OVERVIEW
  - 8.26.2 FINANCIALS
  - 8.26.3 PRODUCTS & SERVICES
  - 8.26.4 STRATEGY
  - 8.26.5 DEVELOPMENTS

## List Of Tables

### LIST OF TABLES

- TABLE 1 GLOBAL LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 2 NATIONAL INSTITUTES OF HEALTH (NIH) STEM CELL RESEARCH FUNDING, FY 2005 – 2011 (\$MILLION)
- TABLE 3 GLOBAL LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 4 LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 5 GLOBAL LIFE SCIENCES REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 6 LIFE SCIENCES REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 7 GLOBAL PCR REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 8 PCR REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 9 PCR MASTER MIXES MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 10 PCR KITS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 11 GLOBAL CELL CULTURE MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 12 CELL CULTURE MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 13 SERA MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 14 CELL CULTURE MEDIA & REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 15 GLOBAL CELL CULTURE MEDIA & REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 16 AMINO ACIDS & VITAMINS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 17 CELL CULTURE ANTIBIOTICS & ANTIMYCOTICS REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)
- TABLE 18 CELL CULTURE BUFFERS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 19 CELL CULTURE DISSOCIATION REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 20 CELL CULTURE GROWTH SUPPLEMENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 21 GLOBAL OTHER CELL CULTURE REAGENTS & MEDIA SUPPLEMENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 22 GLOBAL IVD REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 23 IVD REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 24 MICROBIOLOGY CULTURE REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 25 HEMATOLOGY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 26 IMMUNOASSAY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 27 CLINICAL CHEMISTRY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 28 MOLECULAR DIAGNOSTICS REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 29 EXPRESSION & TRANSFECTION REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 30 GLOBAL ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 31 ANALYTICAL REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 32 CHROMATOGRAPHY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 33 CHEMICALS USED IN PROTEIN CHROMATOGRAPHY

TABLE 34 GLOBAL CHROMATOGRAPHY MARKET REVENUE, BY REAGENTS TYPES, 2009 – 2016 (\$MILLION)

TABLE 35 SOLVENT MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 36 CHEMICAL MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 37 ADSORBENT MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 38 GLOBAL CHROMATOGRAPHY MARKET REVENUE, BY TYPES, 2009 – 2016 (\$MILLION)

TABLE 39 LIQUID CHROMATOGRAPHY MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 40 GAS CHROMATOGRAPHY MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 41 ION CHROMATOGRAPHY MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 42 SUPER CRITICAL FLUID CHROMATOGRAPHY MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 43 MASS SPECTROMETRY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 44 GLOBAL MASS SPECTROMETRY REAGENTS MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)

TABLE 45 PROTEOMICS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 46 DRUG DISCOVERY MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 47 CLINICAL TESTING MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 48 GENOMICS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 49 OTHERS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 50 GLOBAL ELECTROPHORESIS REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 51 ELECTROPHORESIS REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 52 GEL ELECTROPHORESIS REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 53 DYE ELECTROPHORESIS REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 54 BUFFER ELECTROPHORESIS REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 55 GLOBAL FLOW CYTOMETRY REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 56 FLOW CYTOMETRY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 57 CELL-BASED FLOW CYTOMETRY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

TABLE 58 BEAD-BASED FLOW CYTOMETRY REAGENTS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016 (\$MILLION)

- TABLE 59 GLOBAL LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)
- TABLE 60 PROTEIN SYNTHESIS & PURIFICATION MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016(\$MILLION)
- TABLE 61 GENE EXPRESSION MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016(\$MILLION)
- TABLE 62 DNA & RNA ANALYSIS MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016(\$MILLION)
- TABLE 63 DRUG TESTING MARKET REVENUE, BY GEOGRAPHY, 2009 – 2016(\$MILLION)
- TABLE 64 NORTH AMERICA: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 65 NORTH AMERICA: LIFE SCIENCES REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 66 NORTH AMERICA: PCR REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 67 NORTH AMERICA: CELL CULTURE MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 68 NORTH AMERICA: IVD REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 69 NORTH AMERICA: ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 70 NORTH AMERICA: CHROMATOGRAPHY MARKET REVENUE, BY REAGENTS TYPES, 2009 – 2016 (\$MILLION)
- TABLE 71 NORTH AMERICA: CHROMATOGRAPHY MARKET REVENUE, BY TYPES, 2009 – 2016 (\$MILLION)
- TABLE 72 NORTH AMERICA: MASS SPECTROMETRY MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 73 NORTH AMERICA: ELECTROPHORESIS REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 74 NORTH AMERICA: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)
- TABLE 75 EUROPE: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 76 EUROPE: LIFE SCIENCES REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)
- TABLE 77 EUROPE: PCR REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)
- TABLE 78 EUROPE: CELL CULTURE MARKET REVENUE, BY PRODUCTS, 2009 –



2016 (\$MILLION)

TABLE 79 EUROPE: IVD REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 80 EUROPE: ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 81 EUROPE: CHROMATOGRAPHY MARKET REVENUE, BY REAGENTS TYPES, 2009 – 2016 (\$MILLION)

TABLE 82 EUROPE: CHROMATOGRAPHY MARKET REVENUE, BY TYPES, 2009 – 2016 (\$MILLION)

TABLE 83 EUROPE: MASS SPECTROMETRY MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)

TABLE 84 EUROPE: ELECTROPHORESIS REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 85 EUROPE: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)

TABLE 86 ASIA: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 87 ASIA: LIFE SCIENCES REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 88 ASIA: PCR REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 89 ASIA: CELL CULTURE MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 90 ASIA: IVD REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 91 ASIA: ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 92 ASIA: CHROMATOGRAPHY MARKET REVENUE, BY REAGENTS TYPES, 2009 – 2016 (\$MILLION)

TABLE 93 ASIA: CHROMATOGRAPHY MARKET REVENUE, BY TYPES, 2009 – 2016 (\$MILLION)

TABLE 94 ASIA: MASS SPECTROMETRY MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 95 ASIA: ELECTROPHORESIS REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 96 ASIA: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)

TABLE 97 ROW: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 98 ROW: LIFE SCIENCES REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 99 ROW: PCR REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 100 ROW: CELL CULTURE MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 101 ROW: IVD REAGENTS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 102 ROW: ANALYTICAL REAGENTS MARKET REVENUE, BY TECHNOLOGY, 2009 – 2016 (\$MILLION)

TABLE 103 ROW: CHROMATOGRAPHY MARKET REVENUE, BY REAGENTS TYPES, 2009 – 2016 (\$MILLION)

TABLE 104 ROW: CHROMATOGRAPHY MARKET REVENUE, BY TYPES, 2009 – 2016 (\$MILLION)

TABLE 105 ROW: MASS SPECTROMETRY MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)

TABLE 106 ROW: ELECTROPHORESIS MARKET REVENUE, BY PRODUCTS, 2009 – 2016 (\$MILLION)

TABLE 107 ROW: LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY APPLICATIONS, 2009 – 2016 (\$MILLION)

TABLE 108 ACQUISITIONS, 2009 – 2012

TABLE 109 COLLABORATIONS/AGREEMENTS/PARTNERSHIPS, 2010 – 2012

TABLE 110 NEW PRODUCTS LAUNCH, 2009 – 2012

TABLE 111 OTHERS, 2009 – 2012

TABLE 112 ABBOTT: TOTAL SALES AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 113 ABBOTT: TOTAL SALES, BY SEGMENTS, 2009 – 2011(\$MILLION)

TABLE 114 ABBOTT: TOTAL SALE, BY GEOGRAPHY, 2009 – 2010 (\$MILLION)

TABLE 115 AGILENT: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 116 AGILENT: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 117 AGILENT: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 118 DANAHER CORP: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 119 DANAHER CORP: R&D EXPENDITURE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 120 DANAHER CORP: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011(\$MILLION)

TABLE 121 DANAHER CORP: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 122 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 123 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011(\$MILLION)

TABLE 124 BECTON, DICKINSON AND COMPANY: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 125 BIOMERIEUX: TOTAL SALES AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 126 BIOMERIEUX: TOTAL SALES, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 127 BIOMERIEUX: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 128 BIO-RAD: TOTAL SALES AND R&D EXPENSES, 2008 – 2010 (\$MILLION)

TABLE 129 BIO-RAD: TOTAL SALES, BY SEGMENTS, 2008 – 2010 (\$MILLION)

TABLE 130 BIO-RAD: TOTAL REVENUE, BY GEOGRAPHY, 2008 – 2010 (\$MILLION)

TABLE 131 GENERAL ELECTRIC COMPANY: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 132 GENERAL ELECTRIC COMPANY: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 133 GENERAL ELECTRIC COMPANY: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 134 HARVARD BIOSCIENCES: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 135 HARVARD BIOSCIENCES: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 136 LIFE TECHNOLOGIES CORP: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 137 LIFE TECHNOLOGIES CORP: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 138 LIFE TECHNOLOGIES CORP: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 139 LONZA: TOTAL SALES AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 140 LONZA: TOTAL SALES, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 141 LONZA: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 142 MERIDIAN BIOSECINCE INC.: TOTAL REVENUE & R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 143 MERIDIAN BIOSECINCE INC.: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011(\$MILLION)

TABLE 144 MERIDIAN BIOSECINCE INC.: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 145 MERCK MILLIPORE: TOTAL REVENUE AND R&D EXPENDITURE, 2010 – 2011 (\$MILLION)

TABLE 146 MERCK MILLIPORE: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 147 MERCK MILLIPORE: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 148 PERKINELMER: TOTAL SALES AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 149 PERKINELMER: TOTAL SALES, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 150 PERKINELMER: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 151 ROCHE DIAGNOSTICS LTD.: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 152 ROCHE DIAGNOSTICS LTD.: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 153 ROCHE DIAGNOSTICS LTD.: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 154 SIEMENS AG: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 155 SIEMENS AG: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 156 SIEMENS AG: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 157 SIGMA-ALDRICH: SALES AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 158 SIGMA-ALDRICH: TOTAL SALES, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 159 SIGMA-ALDRICH: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 160 SDIX: TOTAL SALES AND R&D EXPENSES, 2008 – 2010 (\$MILLION)

TABLE 161 SDIX: TOTAL SALES, BY SEGMENTS, 2008 – 2010 (\$THOUSAND)

TABLE 162 SDIX: TOTAL REVENUE, BY GEOGRAPHY, 2008 – 2010 (\$MILLION)

TABLE 163 SYSMEX CORP: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 164 SYSMEX CORP: TOTAL REVENUE, BY BUSINESS SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 165 SYSMEX CORP: TOTAL REVENUE, BY PRODUCT SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 166 SYSMEX CORP: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 167 TAKARA: TOTAL SALES AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 168 TAKARA: TOTAL SALES, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 169 TECHNE CORP: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 170 TECHNE CORP: R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 171 TECHEN CORP: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 172 TECHNE CORP: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 173 THERMO FISHER SCIENTIFIC INC.: TOTAL REVENUE AND R&D EXPENSES, 2009 – 2011 (\$MILLION)

TABLE 174 THERMO FISHER SCIENTIFIC INC.: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 175 THERMO FISHER SCIENTIFIC INC.: TOTAL REVENUES, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 176 TOSOH CORP: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 177 TOSOH CORP: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 178 TOSOH CORP: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

TABLE 179 WATERS CORPORATION: TOTAL REVENUES AND R&D EXPENDITURE, 2009 – 2011 (\$THOUSANDS)

TABLE 180 WATERS: TOTAL SALES, BY GEOGRAPHY, 2009 – 2011 (\$THOUSAND)

TABLE 181 WATERS: TOTAL SALES, BY SEGMENTS, 2009 – 2011 (\$THOUSAND)

TABLE 182 W.R. GRACE & CO.: TOTAL REVENUE AND R&D EXPENDITURE, 2009 – 2011 (\$MILLION)

TABLE 183 W.R. GRACE & CO.: TOTAL REVENUE, BY SEGMENTS, 2009 – 2011 (\$MILLION)

TABLE 184 W.R. GRACE & CO.: TOTAL REVENUE, BY GEOGRAPHY, 2009 – 2011 (\$MILLION)

## List Of Figures

### LIST OF FIGURES

FIGURE 1 MARKET SEGMENTATION

FIGURE 2 GLOBAL LIFE SCIENCES & ANALYTICAL REAGENTS MARKET REVENUE, BY END-USERS, 2008 – 2016 (\$BILLION)

FIGURE 3 INDIA: GROSS ENROLMENT RATIO (%)

FIGURE 4 GLOBAL LIFE SCIENCES REAGENTS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 5 GLOBAL ANALYTICAL REAGENTS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 6 GLOBAL PCR REAGENTS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 7 GLOBAL CELL CULTURE REAGENTS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 8 GLOBAL IVD REAGENTS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 9 GLOBAL EXPRESSION & TRANSFECTION REAGENTS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 10 GLOBAL CHROMATOGRAPHY MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 11 GLOBAL MASS SPECTROMETRY MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 12 GLOBAL GEL ELECTROPHORESIS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 13 GLOBAL CAPILLARY ELECTROPHORESIS MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 14 GLOBAL FLOW CYTOMETRY MARKET SHARE ANALYSIS, BY PLAYERS, 2011

FIGURE 15 GLOBAL LIFE SCIENCES & ANALYTICAL REAGENTS MARKET, BY GEOGRAPHY, 2011 (%)

FIGURE 16 KEY GROWTH STRATEGIES, JANUARY 2009 – MARCH 2012

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