

# Biotechnology in India: Market Research Report

<https://marketpublishers.com/r/B80F2757466EN.html>

Date: April 2012

Pages: 396

Price: US\$ 3,950.00 (Single User License)

ID: B80F2757466EN

## Abstracts

This report analyzes the market for Biotechnology in India in US\$ million by the following Key Sectors: Bio-Pharmaceuticals, Bio-Agriculture, Bio-Industrial, Bioinformatics, and Bio-Services.

Annual estimates and forecasts are provided for the period 2009 through 2017.

Also, a six-year historic analysis is provided for this market.

The report profiles 102 companies including many key and niche players such as Advanced Enzymes Technologies Ltd., Ajeet Seeds Ltd., Anthem BioSciences Pvt.Ltd., Bharat Biotech International Limited, Bharat Serums and Vaccines Ltd., Biocon Limited, Syngene International Limited, Dr. Reddy's Laboratories Ltd., Ecron Acunova, Eli Lilly and Company (India) Pvt.Ltd., GlaxoSmithKline Pharmaceuticals Ltd., Indian Immunologicals Ltd., Jubilant Life Sciences Limited, Krishidhan Seeds Private Limited, Lambda Therapeutic Research Ltd., Mahyco, Max Neeman, Monsanto, Novo Nordisk India Pvt.Ltd., Novozymes South Asia Pvt.Ltd., Nuziveedu Seeds Pvt.Ltd., Ocimum Biosolutions Ltd., Panacea Biotec Ltd., Piramal Healthcare Limited, Quintiles India, Rasi Seeds (P) Ltd., Reliance Life Sciences, Serum Institute of India Ltd., Shantha Biotechnics Limited, SIRO Clinpharm, Strand Life Sciences, Veeda Clinical Research Limited, and Vimta Labs Limited.

Market data and analytics are derived from primary and secondary research.

Company profiles are primarily based upon search engine sources in the public domain.

## Contents

### I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definition and Scope of Study

Bio-Pharmaceuticals

Bio-Agriculture

Bio-Industrial

Bioinformatics

Bio-Services

### II. AN INDIAN MARKET REPORT

#### 1. OUTLOOK

Recession and Foreign Exchange Rate Decelerate Industry Growth

Industry Emerges Strong Following Recession

Brighter Prospects Ahead for the Indian Biotech Industry

#### 2. INDUSTRY OVERVIEW

SWOT Analysis

Diversity – Key Strength for the Industry

Major Sectors in the Indian Biotechnology Industry

Government Support for Biotech Innovation – A Boost for the Industry

Challenges Ahead

Concerted Efforts are On to Find a Way Out

Major Industry-Specific Advantages of the Indian Biopharma Sector

Competition

**Table 1.** Leading Biotech Companies in India by Revenues: 2009-10 (includes corresponding Graph/Chart)

**Table 2.** Leading Domestic Biotech Companies in India by Revenues: 2009-10

(includes corresponding Graph/Chart)

Exports – A Major Market for Indian Biotech Industry

**Table 3.** Export Revenues of Indian Biotech Industry by Sector (2008-09 & 2009-10): Export Value in US\$ Million for Bio-Pharma, Bio-Services, Bio-Agri, Bio-Industrial, and Bioinformatics (includes corresponding Graph/Chart)

**Table 4.** Biotechnology Industry Export Revenues as a Percentage Share of Total Segment Revenues: 2009-10 (includes corresponding Graph/Chart)

Analysis by Region

Western Region's Domination Continues in Revenue Terms, Mumbai Moves to the Top

**Table 5.** Leading States in the Indian Biotech Industry by Revenues: 2009-10 (includes corresponding Graph/Chart)

**Table 6.** Leading Cities In the Indian Biotech Industry by Revenues: 2009-10 (includes corresponding Graph/Chart)

Karnataka Embarks on Further Growth Plans; Other Regions Join the League

### **3.ISSUES AND TRENDS**

Government Support to the Biotechnology Sector Surges

Recognizing the Importance of Right Educational System

Need for a Streamlined Regulatory Process Continues

Angel Funding – Still Eluding the Sector

More Countries Look to India for Outsourcing

China and India – Competing for Biotech Investments

### **4.BIO-PHARMACEUTICALS IN INDIA**

**Table 7.** Indian Bio-Pharmaceuticals Market by Segment (2011): Percentage Share Breakdown for Vaccines, Diagnostics, Therapeutics, and Others (includes corresponding Graph/Chart)

## Competitive Landscape of the Biopharma Sector

**Table 8.** Leading BioPharma Companies in India by Revenues: 2009-10 (includes corresponding Graph/Chart)

### Market Analysis by Segment

#### Vaccines

Vaccines to Spearhead Growth in the Indian BioPharma Market

Demand for Vaccines to Surge

India to Emerge as a Global Hub for Vaccines

#### Diagnostics

India Diagnostics Market – An Overview

**Table 9.** Leading Players in the Indian Diagnostics Market by Revenues: Market Share Breakdown of Revenues for Tulip, TransAsia Biomedical, Bayer, Span Diagnostics, and Others (2010) (includes corresponding Graph/Chart)

Indian Diagnostics Industry – Stifled with High Competition

Diagnostic Centers Expand Test Menu to Beat Competition

Bio-Therapeutics - Going Strong

Overseas Giants Dominate the Insulin Market

Plasma Proteins – A Potential Growth Area

mAbs Gain Prominence in the Biopharma Industry

Market Trends

Climbing Up the Value Chain

Domestic Market to Provide Impetus to Bio-Pharma Industry Growth

Biosimilars to Offer Tremendous Prospects for Indian Players

**Table 10.** Indian Market for Biosimilars by Drug Class (2009): Revenues for Insulin, EPO, Interferon, Streptokinase, and G-CSF (includes corresponding Graph/Chart)

Biopharmaceutical Pipeline Growth Continues

r-DNA Biopharmaceuticals Cleared for Pre-Clinical Studies: 2009-10

Indian Firms Embrace Strategic Partnerships to Enter Biotech Industry

Indian Biopharma Market Luring Overseas Players

Indian Pharma Companies on a Co-Development Spree

Vaccines Remain the Center of Focus in Indian BioPharma  
Brighter Prospects Ahead in Original Drug Development  
Myriad Factors Drive Growth in the Indian BioPharma Sector  
Pharma Companies Shift Focus to BioPharma

## **5.BIO-AGRICULTURE IN INDIA**

Indian Bio-Agriculture Industry – An Overview  
Select Biotech Crops in India Under Field Trials: 2008  
Transgenic Crops Cleared for Limited Field Trials: 2009-10  
India – A Leading Adopter of Biotech Crops Worldwide  
Bio-Agri Treads On A Fast-Track Growth Path  
Public and Private Sector Participation in Bio-Agri Research  
Bt Cotton – A Major Success in India  
Indian Farmers Increasingly Embrace Bollgard II Cotton  
Monsanto And Mahyco to Battle Out Pink Bollworm Resistance in Bollgard – I  
Move to Commercialize Bt Brinjal Draws Major Controversy  
Government Retreats, Imposes Moratorium on Launch of Bt Brinjal  
Moratorium on Bt Brinjal Launch, A Setback to the Industry?  
Establishment of BRAI Also Faces the Heat of Opponents  
Stark Criticism Compels India to Establish Transparent Administration of Biotech Procedures  
Bio-Diesel Market – Still in Infancy  
Bio-Fertilizers and Bio-Pesticides Market – An Overview  
Competitive Scenario in the Bio-Agri Sector

**Table 11.** Leading Bio-Agriculture Companies in India by Revenues: 2009-10 (includes corresponding Graph/Chart)

## **6.BIO-INDUSTRIAL SECTOR IN INDIA**

Indian Bio-Industrial Sector – Fairly Concentrated

**Table 12.** Leading Players in the Indian Bio-Industrial Sector (2009-10): Market Share as Percentage of Revenues for Novozymes, Advanced Enzyme Technologies, and Others (includes corresponding Graph/Chart)

## 7. BIOINFORMATICS

Indian Bioinformatics Market Posts Sluggish Growth

## 8. BIO-SERVICES

Indian Bio-Services Market Bustling with Activity

India – A Growing Hub for Clinical Trials

Competitive Scenario

**Table 13.** Leading Biotechnology Services Companies in India By Revenues (2009-10)  
(includes corresponding Graph/Chart)

## 9. REGULATORY SETUP

Regulatory Evolution in the Country

Department of Biotechnology

Public Sector Undertakings under the DBT

Autonomous Institutions operating under the DBT

Roles and Responsibilities of DBT

Various Committees Operating Under the DBT and MoEF

GEAC or the Genetic Engineering Approval Committee

Review Committee on Genetic Manipulation

Institutional Bio-Safety Committee

Recombinant DNA Advisory Committee

Central Drugs Standard Control Organization

Select Acts, guidelines and regulations that govern the biotechnology industry in India

Agencies Supporting and Financing Biotechnology Research in India

New Regulatory Framework on the Horizon

National Biotechnology Strategy

## 10. INDUSTRY INFRASTRUCTURE

Biotech and Science Parks in the Country

Select Biotech and Science Parks in India

Major Research Institutes in India

Select Key Research Institutes in India

Autonomous Biotechnology Institutes in India

## **11. BIOTECHNOLOGY – AN OVERVIEW**

Biotechnology

A Peek into the History of Biotechnology

Select Major Applications of Biotechnology

Medicine

Pharmacogenomics

Biopharmaceuticals

Genetic Testing

Gene Therapy

Cloning

Agriculture

Bioremediation and Biodegradation

## **12. PRODUCT APPROVALS/LAUNCHES**

Panacea Biotec to Introduce PacliALL

Gene Logic Rolls Out ASCENTA System Version 4.0

Bharat Biotech International Unveils HNVAC™ H1N1 Swine Flu Vaccine

Strand Scientific Intelligence Introduces Avadis NGS

Dr Reddy's Rolls Out Generic Darbepoetin Alfa Drug, Cresp®

BD Biosciences and ReaMetrix Unveil New Reagents

Serum Institute of India Rolls Out Nasovac H1N1 Vaccine in India

Ocimum Biosolutions Introduces Biotracker™

Novo Nordisk Launches Antidiabetic Drug, Victoza in India

Cadila Healthcare Launches Vaxiflu-S

Ocimum Biosolutions Introduces qRT-PCR Services

Wockhardt Rolls Out Biotechnology Products

Intas Biopharma Launches Borviz in India

Bharat Biotech International Unveils COMVAC5® Vaccine

## **13. RECENT INDUSTRY ACTIVITY**

Piramal Healthcare to Change Name to Piramal Enterprises

Bharat Biotech Commences Phase III Clinical Trial with THR-100

Bayer Teams Up with Zydus for Joint Venture in India

Qiagen Establishes Qiagen India

Ecron Acunova Expands Capacity at Mangalore Clinical Research Center

IndianOil Inks MOU with LanzaTech  
Dow AgroSciences and GVK Biosciences Discover New Compound  
Ecron Acunova Establishes Joint Venture CRO in Thailand  
Praj Industries Enters into Partnership with Qteros  
Mavens Biotech to Venture into Biotech Education  
Aurobindo Pharma to Divest Stake in Its Chinese Subsidiary  
Abbott Acquires Formulation Business of Piramal Healthcare  
Evolve India Life Sciences Takes Over Stake in Fermenta Biotech  
Strides Arcolab to Take Over 70% Stake in Inbiopro Solutions  
Rallis Acquires Majority Stake in Metahelix  
Ocimum Secures US\$8 Million Funding for Future Growth  
Dr. Reddy's to Purchase US Penicillin Facility and Product Rights from GSK  
Life Technologies to Take Over Labindia  
Biocon Enters into Strategic Global Agreement with Pfizer  
Intas Biopharma to Ink Out-Licensing Deal with Japanese Firm  
Biocon Limited and CMI Enter into Immunology Research Collaboration  
Biocon Signs Contract with Teleradiology Solutions  
Jubilant Organosys Changes Name to Jubilant Life Sciences  
Jubilant Inks CRAMS Deal with a US Firm  
MSCCC and Strand Life Sciences Ink MOU for Translational Cancer Research  
Lohmann Animal Health Enters into Joint Venture with Suguna  
International Stem Cell Inks a Distribution Agreement with Sristi Biosciences  
BioServe Biotechnologies Receives NABL Accreditation for GMO Testing  
Indian Immunologicals to Develop Oral Cervical Cancer Vaccine  
Piramal Healthcare to Take Over the Assets of BioSyntech  
Ocimum Biosolutions to Offer BioIT Consulting Services  
Zydus Obtains DCGI Clearance for Initiating Phase I Trials on Zyog1  
Krishidhan Establishes Subsidiary in Europe  
Biocon Limited Inks Supply Deal with Optimer Pharmaceuticals  
Australia to Grant Research Funding to India  
Ocimum Biosolutions and Jivan Biologics Enter into Partnership  
Stempeutics Completes Phase I/II Study of Stemepucel-CLI Stem Cell Product  
Ranbaxy Enters into Alliance with Pfenex  
Syngene Collaborates with Endo Pharmaceuticals  
Panacea Biotech Obtains Financial Assistance from DBT for Vaccine Development  
M. D. Anderson Cancer Center Selects Biotracker™ of Ocimum Biosolutions  
GVK Biosciences Establishes New Clinical Pharmacology Unit  
Delta Embedded Solutions to merge with Bio-Analytical Technologies  
Clingene Seeks Alliance with SIRO Clinpharm



Biocon Investments in Malaysian Biotech Market  
Ranbaxy to Foray into Vaccines Market through Acquisition of Biovel's Assets  
Clinigene International Deploys PheedIt Solution of SAS  
Sanofi Takes Over Shantha Biotech  
Bioseed Research India Inks Strategic Partnership Agreement with KeyGene  
PRAJ Partners with Novozymes  
Mylan sells stake in Concord Biotech  
Vibha Seeds Sets Up Seed Facility in Andhra Pradesh  
Bayer Cropscience Inks Research Cooperation Agreement with GVK Biosciences  
Millipore Acquires Outstanding Stake of its Joint Venture in India  
Avesthagen Forms Joint Venture with Limagrain  
Indus Biotech Receives HIV Controller Status for IND02 from FDA  
Bharat Biotech Commences Construction at Konark Knowledge Park in Orissa  
International Biotech Park to Forge International Alliances  
Merck Acquires Bangalore Genei  
Bharat Biotech Secures International Patents for Lysostaphin  
Genzyme Inks MoU with NIPER for Offering Biotechnology Fellowships  
Biocon Enters into Agreement with Amylin Pharmaceuticals  
WHO and DCGI Direct Serum Institute of India to Focus on H1N1 Vaccine  
Acoris Research Enters into Strategic Partnership with c-LEcta  
Serum Institute of India to Expedite Vaccine Development  
Sanofi Aventis Acquires Shantha Biotechnics  
Biocon Inks a Strategic Collaboration Agreement with Mylan  
Lonza to Invest in Genome Valley for Two Major Projects  
Bio-Rad Laboratories Integrates DiaMed Scientific Technologies in India  
Syngene Enters into Alliance with DuPont Crop Protection  
Emami Biotech Limited and Calcutta Tramways Company Ink MoU  
TCG Lifesciences and Pfizer Extend Master Services Agreement  
Biological E Commences Operations at New Campus  
Syngene Enters into Partnership with Sapien  
Intas Biopharmaceuticals Inks MoU with Government of Gujarat  
Emami's Bio-Diesel Obtains SGS Certification  
Ocimum Biosolutions Enters into Partnership with NuGEN

## **14. STRATEGIC CORPORATE DEVELOPMENTS – A HISTORIC PERSPECTIVE BUILDER**

Biocon Collaborates with Abraxis to Introduce Abraxane in India  
Intas Biopharmaceuticals Takes Over BPD

Bharat Biotech Completes Phase I/II Clinical Trials for 116E Oral Rotavirus Vaccine  
Intas Biopharmaceuticals to Commercialize Gefitinib in India  
Avesthagen Inks Lol with ShigaMediX  
Ranbaxy Signs Collaborative Research Agreement with DBT  
Veeda Establishes Global Oncology Contract Research Organization  
Avesthagen Signs Framework Agreement with DuBiotech  
Biocon Buys Majority Stake in German Company  
Monsanto India to Sell Butachlor & Alachlor Businesses to Sinochem International  
Biocon Signs Strategic Partnership Agreement with IATRICa  
Intas Pharmaceuticals to Sell Biotechnology Products in GCC

## **15.FOCUS ON SELECT LEADING PLAYERS**

Advanced Enzymes Technologies Ltd.  
Ajeet Seeds Ltd.  
Anthem BioSciences Pvt. Ltd.  
Bharat Biotech International Limited  
Bharat Serums and Vaccines Ltd.  
Biocon Limited  
Syngene International Limited  
Dr. Reddy's Laboratories Ltd  
Ecron Acunova  
Eli Lilly and Company (India) Pvt. Ltd.  
GlaxoSmithKline Pharmaceuticals Ltd.  
Indian Immunologicals Ltd.  
Jubilant Life Sciences Limited  
Krishidhan Seeds Private Limited  
Lambda Therapeutic Research Ltd.  
Mahyco  
Max Neeman  
Monsanto  
Novo Nordisk India Pvt. Ltd.  
Novozymes South Asia Pvt. Ltd.  
Nuziveedu Seeds Pvt. Ltd.  
Ocimum Biosolutions Ltd.  
Panacea Biotec Ltd.  
Piramal Healthcare Limited  
Quintiles India  
Rasi Seeds (P) Ltd.

Reliance Life Sciences  
Serum Institute of India Ltd.  
Shantha Biotechnics Limited  
SIRO Clinpharm  
Strand Life Sciences  
Veeda Clinical Research Limited  
Vimta Labs Limited

## 16.MARKET ANALYTICS

**Table 14.** Indian Recent Past, Current & Future Analysis for Biotechnology Industry by Sector – Bio-Pharmaceuticals, Bio-Agriculture, Bio-Industrial, Bioinformatics, and Bio-Services Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

**Table 15.** Indian Historic Review for Biotechnology Industry by Sector– Bio-Pharmaceuticals, Bio-Agriculture, Bio-Industrial, Bioinformatics, and Bio-Services Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

**Table 16.** Indian 15-Year Perspective for Biotechnology Industry by Sector – Percentage Breakdown of Dollar Sales for Bio-Pharmaceuticals, Bio-Agriculture, Bio-Industrial, Bioinformatics, and Bio-Services Markets for Years 2003, 2011 and 2017 (includes corresponding Graph/Chart)

**Table 17.** Indian Recent Past, Current & Future Analysis for Bio-Pharmaceuticals by Segment – Vaccines, Diagnostics, Therapeutics, and Others Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2009 through 2017 (includes corresponding Graph/Chart)

**Table 18.** Indian Historic Review for Bio-Pharmaceuticals by Segment – Vaccines, Diagnostics, Therapeutics, and Others Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2003 through 2008 (includes corresponding Graph/Chart)

**Table 19.** Indian 15-Year Perspective for Bio-Pharmaceuticals by Segment – Percentage Breakdown of Dollar Sales for Vaccines, Diagnostics, Therapeutics, and Others Markets for Years 2003, 2011 and 2017 (includes corresponding Graph/Chart)

### **III. COMPETITIVE LANDSCAPE**

Total Companies Profiled: 102 (including Divisions/Subsidiaries - 111)  
India (111)

## I would like to order

Product name: Biotechnology in India: Market Research Report

Product link: <https://marketpublishers.com/r/B80F2757466EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/B80F2757466EN.html>