

2016 Germany Nucleic Acid Testing/NAT Market: Supplier Shares, Country Volume and Sales Segment Forecasts, Innovative Technologies, Instrumentation Review, Competitive Strategies, Emerging Opportunities-Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternity Testing

https://marketpublishers.com/r/25BB48F9CD9EN.html

Date: November 2015 Pages: 1125 Price: US\$ 5,360.00 (Single User License) ID: 25BB48F9CD9EN

Abstracts

This report presents a comprehensive analysis of the German molecular diagnostics market, including:

Major issues pertaining to the German molecular diagnostics laboratory practice, as well as key economic, regulatory, demographic, social and technological trends with significant market impact during the next ten years.

An extensive review of DNA probe and biochip technologies, test formats, detection methodologies, trends in testing automation and amplification methods.

Ten-year test volume and reagent sales forecasts for the following categories:

Infectious Diseases

Genetic Diseases

Cancer



Paternity Testing/HLA Typing

Forensic Testing

Review of testing methodologies an instrumentation technologies.

Feature comparison of automated and semiautomated analyzers.

Sales and market shares of leading suppliers.

Over 60 specific opportunities for molecular diagnostic instruments, test systems, IT and auxiliary products.

Profiles of major suppliers, and emerging market entrants, including their sales, product portfolios, marketing tactics, technological know-how, new products in R&D, collaborative arrangements and business strategies.

Alternative market penetration strategies.

Potential market entry barriers and risks.

Business planning issues and concerns.

Contains 1,125 pages and 58 tables



Contents

1. INTRODUCTION

2. MAJOR PRODUCT DEVELOPMENT OPPORTUNITIES

- A. Instrumentation
- B. Reagent Kits and Test Systems/panels
- C. Computers, Software and Automation
- **D.** Auxiliary Products
- 3. DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS
- 4. ALTERNATIVE MARKET PENETRATION STRATEGIES
- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies For Decentralized Testing Markets

5. POTENTIAL MARKET ENTRY BARRIERS AND RISKS

- A. Market Maturity
- B. Cost Containment
- C. Competition
- D. Technological Edge And Limitations
- E. Patent Protection
- F. Regulatory Constraints
- G. Decentralized Testing Market Challenges

6. WORLDWIDE MARKET AND TECHNOLOGY REVIEW

- A. DNA Sequencing
 - 1. INTRODUCTION
 - 2. SEQUENCING METHODS
 - 3. AUTORADIOGRAPHY
 - 4. THE HUMAN GENOME PROJECT
 - 5. SEQUENCING AUTOMATION
 - 6. IMAGE SCANNERS
 - 7. FLUORESCENT DETECTION
 - 8. GENE PROFILING
 - 9. GENE EXPRESSION



10. POLYMORPHISM SCREENING

11. PROTEIN INTERACTION NETWORKS

- B. DNA and RNA Probe Technologies
 - 1. BASIC PRINCIPLES
 - 2. PROBE PREPARATION
 - 3. THE DNA PROBE TEST
 - 4. TEST FORMATS
 - 5. LABELING TECHNIQUES
 - 6. AMPLIFICATION METHODS
- C. Detection Technologies
 - **1. RADIOACTIVE METHODS**
 - a. Overview
 - b. Major Isotopes
 - P-32
 - S-35
 - H-3
 - I-125
 - 2. NON-ISOTOPIC METHODS
 - a. Enzymatic Labels
 - b. Chemical Labeling
 - Indirect Chemical Labeling
 - Direct Chemical Labeling
 - c. Fluorescence
 - d. Chemiluminescence
 - e. Electrical Conductivity
- D. Molecular Diagnostic Instrumentation Review
 - 1. ABBOTT LCX
 - 2. BECKMAN COULTER/BIOMEK FK
 - 3. BD VIPER SYSTEM WITH XTR TECHNOLOGY
 - 4. BD INNOVA
 - 5. BECTON DICKINSON SDA
 - 6. BIOMERIEUX NUCLISENS EASYMAG
 - 7. BIOMERIEUX NUCLISENS EASYQ AND MINIMAG
 - 8. BIO-RAD GENESCOPE
 - 9. CEPHEID GENEXPERT
 - **10. CURETIS UNYVERO**
 - 11. GENMARK DX ESENSOR XT-8
 - 12. HOLOGIC/GEN-PROBE PANTHER
 - 13. HOLOGIC/GEN-PROBE TIGRIS/DTS



- 14. HTG MOLECULAR EDGE
- 15. LIFE TECHNOLOGIES QUANTSTUDI DX
- 16. QIAGEN QIASYMPHONY RGQ
- 17. ROCHE COBAS AMPLICOR
- 18. ROCHE COBAS TAQMAN
- 19. ROCHE COBAS TAQMAN
- 20. ROCHE COBAS TAQMAN AMPLIPREP
- 21. ROCHE LIGHCYCLER
- 22. ROCHE COBAS 4800
- 23. ROCHE COBAS S
- 24. SIEMENS VERSANT
- 25. TECAN LS SERIES
- E. Biochips: Genosensors, Microarrays, and Labs-on-the-Chip
- Liquid Transportation and Mixing

Separation

Reaction

Detection

- F. Pharmacogenomics
- G. Major Applications
 - 1. MICROBIOLOGY/INFECTIOUS DISEASES
 - a. Overview
 - b. Major Infectious Diseases
 - AIDS: HIV/HIV-1/2/Combo, HIVAg/HIV NAT, Western Blot, HTLV-I/II

Adenovirus

- Aeromonas
- Anthrax/Bacillus Anthracis
- Arboviruses
- Babesiosis

Bacillary Epithelioid Angiomatosis (BEA) and Other Bartonella (Rochalimaea)

- **Blastocystis Hominis**
- Brucella
- Campylobacter
- Candida
- Chagas Disease
- Chancroid
- Chlamydia
- **Clostridium Difficile**
- Coronaviruses
- Coxsackieviruses



Creutzfeldt-Jakob's Disease

Cryptosporidium Parvum

Cyclospora Cayetanensis

Cytomegalovirus

Ebola Virus

E. Coli

EchoVirus

Encephalitis

Enteroviruses

Epstein-Barr Virus

Giardia Lamblia

Gonorrhea

Granuloma Inguinale

Hantavirus

Helicobacter Pylori

Hepatitis: HAV NAT, HBV NAT, HBs Ag, HCV, HCV NAT, Anti-HBc, Anti-HBs, Anti-

HAV, Hepatitis Delta, HBc Ag, HBe Ag, ALT/SGPT

Herpes Simplex Virus

Human Herpes Virus-6 (HHV-6)

Influenza Viruses

Legionella

Lyme Disease

Lymphogranuloma Venereum (LGV)

Malaria

Measles (Rubeola)

Meningitis

Microsporidium

Mononucleosis

Mumps

Mycoplasma

Papillomaviruses

Parvovirus B19

Pneumonia

Polyomaviruses

Pseudomonas Aeruginosa

Rabies

Respiratory Syncytial Virus (RSV)

Rhinoviruses

Rotavirus



Rubella

Salmonellosis

Septicemia

Shigellosis

Staphylococcus Aureus

Streptococci

Syphilis

Toxoplasmosis

Trichomonas Vaginalis

Tuberculosis

Vibrio

West Nile Virus

Yersina

- 2. CANCER TESTING
 - a. Overview
 - b. Major Cancer Types
- * Prostate
- * Lung
- * Colon and Rectum
- * Breast
- * Skin
- * Uterine
- * Leukemia
- * Oral
 - c. Oncogenes

Abl/abl-bcr

AIB1

BCL-2

- BRCA1
- CD44
- C-fos
- C-myb
- C-myc
- CYP17
- Erb-B
- HPC1
- N-myc
- P40
- P51



P53

PIK3CA

- PTI-1
- Ras
- Reg
- Sis
- Src
- 3. GENETIC DISEASES
 - a. Overview
 - b. Nucleic Acid Amplification
- c. Chromosome Imaging
- d. Genomics Technologies
- e. Proteomics Technologies
- f. Current Pharmacogenomic Tests
- g. Future Pharmacogenomic Testing
- h. Major Diseases
- * Achondroplasia
- * Autosomal Dominant Polycystic Kidney
- Disease
- * Cancer
- * Cosmetogenomics
- * Cystic Fibrosis
- * Down's Syndrome
- * Duchenne and Becker Muscular Dystrophy
- * Factor V (Leiden)
- * Factor IX Deficiency
- * Fragile X Syndrome
- * Heart Disease
- * Hemochomatosis
- * Hemophilia
- * Huntington's Disease
- * Maternal-Fetal Incompatibility
- * Multiple Endocrine Neoplasia
- * Phenylketonuria (PKU)
- * Polycystic Kidney Disease (PKD)
- * Prenatal Screening
- * Retinitis Pigmentosa
- * Retinoblastoma
- * Sickle Cell Anemia



- * Spinal Muscular Atrophy
- * Vitamin B12 Metabolism
 - i. Social Issues and Concerns
 - 4. FORENSIC TESTING
 - a. Overview
 - b. Multilocus and Single Locus Probes
- * Multilocus Probes
- * Single Locus Probes
- * PCR and RFLP
 - c. The FBI
 - d. DNA Profile Data Banks
 - * U.S.A.
 - * U.K.
 - e. Judicial Implementation
 - f. Major Crime Categories
 - g. Factors Contributing to the DNA Probe
- Market Expansion
- * Technology Availability
- * Use of Hair as Evidence
 - h. Wildlife Forensics
 - 5. PATERNITY TESTING/HLA TYPING
 - 6. OTHER APPLICATIONS
 - a. Disease Susceptibility Testing
 - b. Cardiovascular Diseases
 - c. Diabetes
 - d. Alzheimer's Disease
 - e. Periodontal Disease
 - f. Plasma Purification
 - g. Organ Transplantation
 - h. Water Contamination
 - i. Other
- H. Competing/complementing
 - 1. MONOCLONAL ANTIBODIES/IMMUNOASSAYS
 - 2. RNA PROBES
 - 3. TWO-DIMENSIONAL ELECTROPHORESIS
 - 4. FLOW CYTOMETRY

7. GERMANY MOLECULAR DIAGNOSTICS MARKET



A. Executive Summary **B.** Business Environment C. Market Structure D. Market Size, Test Volume and Sales Forecasts, Major Supplier Sales and Market Shares 8. COMPETITIVE ASSESSMENTS Abbott Affymetrix **Agilent Technologies** Applied Gene Technologies Arca Biopharma Beckman Coulter/Danaher **Becton Dickinson Biokit** bioMerieux **Bio-Rad Biotest** Cepheid CellMark Forensics/LabCorp **Decode Genetics** Diadexus Eiken Elitech Group Enzo **Exact Sciences** Fujirebio Grifols Hologic/Gen-Probe Illumina Kreatech/Leica Li-Cor Biosciences Monogram Biosciences/LabCorp Myriad Genetics **Ortho-Clinical Diagnostics** Perkin Elmer/Caliper **Proteome Sciences** Qiagen Roche Scienion





Sequenom Shimadzu Siemens Sierra Molecular Takara Bio Tecan Group Thermo Fisher

13. APPENDIX: MAJOR UNIVERSITIES AND RESEARCH CENTERS DEVELOPING MOLECULAR DIAGNOSTIC TECHNOLOGIES



List Of Tables

LIST OF TABLES

Major Companies Developing or Marketing AIDS Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Adenovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Bartonella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Campylobacter Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Candida Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Chlamydia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Clostridium Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Coronavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Cryptosporidium Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing CMV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Echovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Enterovirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing EBV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Giardia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Gonorrhea Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Hantavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Helicobacter Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Hepatitis Molecular Diagnostic and Other



Direct Identification Tests

Major Companies Developing or Marketing Herpes Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Influenza Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Legionella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Lyme Disease Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Measles Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Meningitis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Mononucleosis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Mumps Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Mycoplasma Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Pneumonia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing RSV Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Rotavirus Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Rubella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Salmonella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Septicemia Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Shigella Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Streptococci Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Syphilis Molecular Diagnostic and Other Direct Identification Tests

Major Companies Developing or Marketing Toxoplasmosis Molecular Diagnostic and Other Direct Identification Tests



Major Companies Developing or Marketing Trichomonas Molecular Diagnostic and Other Direct Identification Tests Major Companies Developing or Marketing Tuberculosis Molecular Diagnostic and Other Direct Identification Tests **Oncogenes Potential Application in Cancer Diagnosis** Major Companies Developing or Marketing Cancer Molecular Diagnostic Tests Major Companies Developing or Marketing Molecular Diagnostic Tests For Genetic Diseases Germany Molecular Diagnostics Test Volume And Sales By Major Application Germany Laboratories Performing DNA Sequencing By Market Segment Germany Molecular Diagnostics Market Potential Laboratory Universe by Market Segment 2014 Germany Molecular Diagnostics Test Volume By Major Application Germany Major Infectious Disease Test Volume by Assay Germany Major Infectious Disease Test Volume by Method Germany Molecular Diagnostics Market By Major Application Germany Molecular Diagnostics Market Estimated Sales And Market Shares of Major Suppliers Germany Major Infectious Disease Diagnostics Market by Assay Germany AIDS Testing Market Estimated Sales by Major Supplier Germany CMV Testing Market Estimated Sales by Major Supplier Germany EBV Testing Market Estimated Sales by Major Supplier Germany Gonorrhea Testing Market Estimated Sales by Major Supplier Germany Hepatitis Testing Market Estimated Sales by Major Supplier Germany Hepatitis C Testing Market Estimated Sales by Major Supplier Germany HIV/Hepatitis Blood Screening NAT Market Reagent Sales by Major Supplier Germany Herpes Testing Market Estimated Sales by Major Supplier Germany Influenza Testing Market Estimated Sales by Major Supplier Germany Meningitis Testing Market Estimated Sales by Major Supplier Germany Mycoplasma Testing Market Estimated Sales by Major Supplier Germany Pneumonia Testing Market Estimated Sales by Major Supplier Germany RSV Testing Market Estimated Sales by Major Supplier Germany Rotavirus Testing Market Estimated Sales by Major Supplier



I would like to order

- Product name: 2016 Germany Nucleic Acid Testing/NAT Market: Supplier Shares, Country Volume and Sales Segment Forecasts, Innovative Technologies, Instrumentation Review, Competitive Strategies, Emerging Opportunities-Infectious Diseases, Genetic Diseases, Cancer, Forensic and Paternity Testing
 - Product link: https://marketpublishers.com/r/25BB48F9CD9EN.html
 - Price: US\$ 5,360.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service: info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/25BB48F9CD9EN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

**All fields are required

Custumer signature ____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>



To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970