

2023 POC Ancillary Hospital Locations (ER, OR, ICU/CCU) Diagnostic Testing Market: 2022 Supplier Shares and 2022-2027 Segment Forecasts by Test, Competitive Intelligence, Emerging Technologies, Instrumentation and Opportunities for Suppliers

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Abstracts

This report provides comprehensive analysis of the diagnostic testing markets outside the main hospital laboratory (ERs, ORs, and ICUs). The report includes analysis of the market dynamics, size, growth, regulatory requirements, technological trends, competitive landscape, and emerging opportunities for instrument and consumable suppliers. We trust, this report will help diagnostic products suppliers develop more effective business, R&D and marketing strategies.

Rationale

The growing economic pressures on hospitals, coupled with advances in diagnostic technologies, intensifying competition among suppliers and physicians, and changing consumer demands are shifting diagnostic testing from hospitals closer to the patient.

Market Segmentation Analysis

Review of the ER, OR and ICU market segments, including their dynamics, trends, structure, size, & growth and major suppliers.

Five-year test volume and sales forecasts for chemistry, immunodiagnostic, microbiology, hematology and coagulation procedures by market segment:

Emergency Rooms



Operating/Recovery Suites
ICUs/CCUs
and test category
Routine and Special Chemistry
Microbiology/Infectious Diseases
Hematology
Flow Cytometry
Coagulation
Immunoproteins
Drugs of Abuse
TDM
Endocrine Function
Tumor Markers
Sales and Market Share Analysis
Sales and market shares of major reagent and instrument suppliers.
Current and Emerging Products

2023 POC Ancillary Hospital Locations (ER, OR, ICU/CCU) Diagnostic Testing Market: 2022 Supplier Shares and 20...

Review of leading POC chemistry, immunoassay, hematology and coagulation

Analysis of over 130 diagnostic procedures.



analyzers, both currently marketed and those in development, including their operating characteristics, features and selling prices.

Technology Review

Emerging technologies and their applications for POC testing.

Comprehensive listings of companies developing or marketing POC diagnostic technologies

and products, by test.

Competitive Assessments

Assessments of major suppliers and emerging market entrants, including their sales, product portfolios, & marketing tactics, joint ventures, and new products in R&D.

Strategic Recommendations

Specific opportunities for new POC instruments and reagent systems with potentially significant market appeal during the next five years.

Design criteria for POC testing products.

Alternative business expansion strategies.

Potential market entry barriers and risks.

Methodology

This report is based on a combination of primary and secondary sources of information, including review of recent technical and business publications, manufacturer product literature, industry analyst reports, and VPGMarketResearch's proprietary data files.



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- 8. Defensive Medicine
- 9. Quality Control Issues

WORLDWIDE @MARKET AND TECHNOLOGY OVERVIEW

Major Routine Chemistry Tests

- 1. Albumin
- 2. Alkaline Phosphatase
- 3. ALT/SGPT
- 4. Ammonia
- 5. Amylase
- 6. AST/SGOT
- 7. Bilirubin
- 8. Blood Gases
- 9. Blood Urea Nitrogen (BUN)
- 10. Calcium
- 11. Cholesterol
- 12. Cholinesterase
- 13. Creatinine
- 14. Electrolytes
 - a. Carbon Dioxide/Bicarbonate
 - b. Chloride
 - c. Potassium
 - d. Sodium
- 15. Ferratin
- 16. Follate/Folic Acid
- 17. Fructosamine



- 18. Gamma-Glutamyl Transpeptidase (GGT)
- 19. Glucose
- 20. High Density Lipoprotein (HDL)
- 21. Iron
- 22. Lactate Dehydrogenase (LDH)
- 23. Magnesium
- 24. Phosphorus
- 25. Protein
- 26. Triglycerides
- 27. Troponin
- 28. Uric Acid
- 29. Urinalysis
- 30. Vitamin B12

Infectious Disease Tests

- 1. AIDS
- 2. Adenovirus
- 3. Campylobacter
- 4. Candida
- 5. Chlamydia
- 6. Clostridium Difficile
- 7. Cytomegalovirus
- 8. Enteroviruses
- 9. Epstein-Barr Virus
- 10. Gonorrhea
- 11. Helicobacter Pylori
- 12. Hepatitis
 - a. Hepatitis A
 - b. Hepatitis B
 - c. Hepatitis C
 - d. Hepatitis D
- 13. Herpes Simplex Virus
- 14. Human Herpes Virus-6 (HHV-6)
- 15. Influenza Viruses
- 16. Legionella
- 17. Lyme Disease
- 18. Measles (Rubeola)
- 19. Meningitis
- 20. Mononucleosis
- 21. Mumps



- 22. Mycoplasma
- 23. Papillomaviruses
- 24. Pneumonia
- 25. Respiratory Syncytial Virus (RSV)
- 26. Rheumatoid Arthritis
- 27. Rotavirus (Reovirus)
- 28. Rubella (German Measles)
- 29. Salmonellosis
- 30. Shigellosis
- 31. Staphylococcus Aureus
- 32. Streptococci
- 33. Syphilis

Tumor Markers

- 1. Alpha-Fetoprotein (AFP)
- 2. Carcinoembrionic Antigen (CEA)
- 3. Occult Blood
- 4. Prostatic Acid Phosphatase (PAP)
- 5. Prostate-Specific Antigen (PSA)

Major Routine and Special Hematology Tests

- 1. CBC Analysis
 - a. Hemoglobin Concentration
 - b. Hematocrit Determination
 - c. Red Blood Cell Count
 - d. Platelets

Endocrine Function Tests

- 1. Cortisol
- 2. Follicle-Stimulating Hormone (FSH)
- 3. Gastrin
- 4. Human Chorionic Gonadotropin (HCG)
- 5. LH
- 6. Prolactin
- 7. T3
- 8. T3 Uptake
- 9. Free T3
- 10. Thyroxine (T4)
- 11. Free T4
- 12. TBG
- 13. TSH

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- 1. Overview
- 2. Carbamazepine
- 3. Digoxin
- 4. Gentamicin
- 5. Lidocaine
- 6. Lithium
- 7. Phenytoin/Dilantin
- 8. Procainamide
- 9. Quinidine
- 10. Theophylline
- 11. Valproic Acid

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- 2. Activated Partial Thromboplastin Time (APTT)
- 3. Alpha-2 Antiplasmin
- 4. Antithrombin III
- 5. Bleeding Time
- 6. D-Dimer
- 7. Factor VIII
- 8. Fibrin Degradation Products
- 9. Fibrinogen
- 10. Heparin
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- 1. Overview
- 2. Test Methodologies
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- 4. Barbiturates
- 5. Benzodiazepines
- 6. Cannabinoids/Marijuana
- 7. Cocaine
- 8. Lysergic Acid Diethylamide (LSD)
- 9. Methadone
- 10. Methaqualone



- 11. Opiates
- 12. Phencyclidine

Instrumentation

1. Chemistry Analyzers Manufactured by:

Abaxis

Abbott

Alfa Wassermann

Awareness Technologies

Beckman Coulter/Danaher

bioMerieux

Carolina Chemistries

Horiba

Medica

Nova Biomedical

Ortho-Clinical Diagnostics

Polymedco

Randox

Roche

2. Hematology Analyzers Manufactured by:

Abbott

Becton Dickinson

Beckman Coulter/Danaher

Biocode

Drew-Scientific

Diesse Ves Matic

Horiba

Menarini

Nihon Kohden

Polymedco

Sysmex

3. Coagulation Analyzers Manufactured by:

Behnk Elektronik

Bio/Data

Cardiovascular Diagnostics

Diagnostica Stago

Helena Laboratories

Instrumentation Laboratory

Roche

Siemens Healthineers



Sysmex

Teco Medical Instruments

Trinity Biotech

Current and Emerging Technologies

- 1. Monoclonal Antibodies
- 2. Immunoassays
 - a. Technological Principle
 - b. Enzyme Immunoassays (EIA)

Overview

ELISA

Dot Immunobinding Assays

Capillary Immunoassays

Particle-Membrane Capture Immunoassay

Enzyme Amplification

c. Fluorescent Immunoassays

Fluorescent Polarization

Time-Resolved Pulse Fluorescence

d. Luminescence

Chemiluminescence

Bioluminescence

- e. Latex Agglutination
- f. Immunoprecipitation
- 3. Dry Chemistry
- 4. Biosensors
- 5. IT and Automation
- 6. Molecular Diagnostics
 - a. Technology Overview
 - b. Amplification Methods

Polymerase Chain Reaction

Ligase Chain Reaction

Branched DNA

Q-Beta Replicase

Strand Displacement Activation

Self-Sustained Sequence Replicase

Worldwide Business Environment

U.S.A.

Market Overview

- 1. Business Environment
 - a. Health Care Expenditures



- b. Cost Consciousness
- c. Reimbursement
- d. Industry Consolidation
- e. Managed Care

PPO

HMO

- f. Hospitals
- g. Admissions
- h. Length of Stay
- i. Industry Diversification
- j. Physician Demographics
- k. Aging Population

More Chronic Illness

Disease Incidence

Susceptibility to latrogenesis

Multiple Illnesses Cases

- I. Laboratory Regulations
- 2. Market Structure
 - a. Hospitals
 - b. Commercial/Private Laboratories

Ancillary Hospital Locations

- 1. Introduction
 - a. Emergency Departments
 - b. Operating Suites
 - c. Intensive Care Units
- 2. Emergency Departments
 - a. Market Summary
 - b. Test volume and Sales Forecasts
- 3. Operating and Recovery Suites
 - a. Market Summary
 - b. Test Volume and Sales Forecasts
- 4. ICUs/CCUs
 - a. Market Summary
 - b. Test Volume and Sales Forecasts

Major Product Development Opportunities

- A. Routine and Special Chemistry
- B. Microbiology/Infectious Diseases
- C. Hematology and Flow Cytometry
- D. Coagulation



DESIGN CRITERIA FOR DECENTRALIZED TESTING PRODUCTS

ALTERNATIVE MARKET PENETRATION STRATEGIES

- A. Internal Development
- B. Collaborative Arrangements
- C. University Contracts
- D. Distribution Strategies for Decentralized Testing Markets
 - 1. Marketing Approaches
 - 2. Product complexity
 - 3. Customer Preference
 - 4. Established Suppliers
 - 5. Emerging Suppliers
 - 6. Major Types of Distributors
 - 7. Market Segmentation

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

Company Profiles

Abbott

Agilent Technologies

Beckman Coulter/Danaher/Cepheid

Becton Dickinson

Bio/Data

bioMerieux

Bio-Rad

Chrono-Log

Corgenix

Decode Genetics

Diagnostica Stago

Diamedix



DiaSorin

Eiken Chemical

EKF Diagnostics

Fujifilm Wako

Fujirebio

Grifols

Helena Laboratories

Hologic

Horiba

Instrumentation Laboratory/Werfen

Kyowa Medex

Labcorp

Leica Biosystems

Lonza

Nihon Kohden

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Major Companies Developing or Marketing Candida Tests

Major Companies Developing or Marketing CMV Tests

Major Companies Developing or Marketing EBV Tests

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Major Companies Developing or Marketing Hepatitis Tests

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Major Companies Developing or Marketing Influenza Tests



Major Companies Developing or Marketing Legionella Tests

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Major Companies Developing or Marketing Occult Blood Tests

Major Companies Developing or Marketing Prostatic Acid Phosphatase Tests

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Major Companies Developing or Marketing LH Tests

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Major Companies Developing or Marketing TSH Tests

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Hospital Emergency Departments

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Hospital ICUs/CCUs Routine

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Hospital ICUs/CCUs

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Major Suppliers of Clinical Chemistry



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Estimated Market Shares of Major Suppliers

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Estimated Market Shares of Major Suppliers

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Herpes Testing Market

Estimated Market Shares of Major Suppliers

Influenza Testing Market

Estimated Market Shares of Major Suppliers

Lyme Disease Testing Market

Estimated Market Shares of Major Suppliers

Mononucleosis Testing Market

Estimated Market Shares of Major Suppliers

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Estimated Placements and Installed Base

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Estimated Market Shares of Major Suppliers

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Estimated Market Shares of Major Suppliers

Flow Cytometry Instrument Market

Estimated Market Shares of Major Suppliers

Major Suppliers of Coagulation

Diagnostic Products, Estimated Market Shares of Major Suppliers



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