

# The Clinical Chemistry Market: US, Europe, Japan

## Table of Contents

### Introduction

### Worldwide Market and Technology Overview

#### **A. Major Routine Chemistry Tests**

1. Albumin
2. Alkaline Phosphatase
3. ALT/SGPT
4. Ammonia
5. Amylase
6. AST/SGOT
7. Bilirubin, Total
8. Blood Gases
9. Blood Urea Nitrogen (BUN)
10. Calcium
11. Cardio CRP
12. Cholesterol
13. Cholinesterase
14. CRP
15. Creatinine
16. Electrolytes
  - a. Carbon Dioxide/Bicarbonate
  - b. Chloride
  - c. Potassium
  - d. Sodium
17. Ferritin
18. Fructosamine
19. Gamma-Glutamyl Transpeptidase (GGT)
20. Glucose
21. High Density Lipoprotein (HDL)
22. Homocysteine
23. Iron
24. Lactate Dehydrogenase (LDH)
25. Magnesium
26. Phosphorus
27. Protein
28. Triglycerides
29. Uric Acid
30. Troponin

## Table of Contents (Continued)

### **B. Therapeutic Drug Monitoring (TDM)**

1. Overview
2. Carbamazepine
3. Cyclosporin
4. Digoxin
5. Everolimus
6. Gentamicin
7. Lamotrigine/Lamictal
8. Levetiracetam
9. Lidocaine
10. Lithium
11. NAPA/Procainamide
12. Phenytoin
13. Quinidine
14. Sirolimus
15. Tacrolimus
16. Theophylline
17. Topiramate
18. Valproic Acid

### **C. Endocrine Function Tests**

1. Cortisol
2. Follicle-Stimulating Hormone (FSH)
3. Gastrin
4. Growth Hormone/IGF-1
5. Human Chorionic Gonadotropin (HCG)
6. LH
7. PTH/IO PTH
8. Prolactin
9. T3
10. T3 Free
11. T3 Uptake
12. T4 (Thyroxine)
13. T4 Free
14. TBG
15. Thyroglobulin Ab
16. TPO Ab
17. TSH

## Table of Contents (Continued)

### **D. Tumor Markers And Special Chemistry Tests**

1. AFP
2. CA 15-3
3. CA 19-9
4. CA 27-29
5. Carcinoembryonic Antigen (CEA)
6. Folate/Folic Acid
7. HCG
8. 25-Hydroxy Vitamin D2 and D3
9. Occult Blood
10. Prostate-Specific Antigen (PSA)
11. Thyroglobulin
12. Vitamin B-12

### **E. Immunoprotein Tests**

1. Complement
  - a. C3
  - b. C4
2. Free Light Chains
3. Immunofixation
4. Immunoglobulins (IgA, IgE, IgG, IgM)
5. Haptoglobin
6. Prealbumin
7. Protein Electrophoresis

### **F. Drugs of Abuse**

1. Overview
2. Test Methodologies
3. Amphetamines
4. Barbiturates
5. Benzodiazepines
6. Cannabinoids/Marijuana
7. Cocaine
8. Lysergic Acid Diethylamide (LSD)
9. Methadone
10. Methaqualone
11. Opiates
12. Phencyclidine
13. Tricyclic Antidepressants

## Table of Contents (Continued)

### **G. Instrumentation Review: Operating Characteristics and Features of High-, Medium-, and Low- Volume/POC Analyzers Manufactured By:**

- Abaxis
- Abbott
- Alere/Inverness
- Alfa Wassermann
- AMS
- Awareness Technologies
- Beckman Coulter/Olympus
- Binding Site
- bioMerieux
- Carolina Chemistries
- DiaSorin
- Grifols
- Horiba
- Medica
- Nova Biomedical
- Ortho-Clinical Diagnostics
- Polymedco
- Randox
- Roche
- Siemens
- Tosoh
- Vital Diagnostics

### **H. Major In Vitro Diagnostic Technologies And Their Potential Applications**

1. Monoclonal and Polyclonal Antibodies
2. Immunoassays
  - a. Technological Principle
  - d. Chemiluminescence
  - c. Enzyme Immunoassays (EIA)
    - Overview
    - ELISA
    - EMIT
    - Electrochemical

## **Table of Contents (Continued)**

- d. Radioimmunoassays (RIA)
- e. Immunoprecipitation
- f. Affinity Chromatography

- 3. Tandem Mass Spec
- 4. IT and Automation
- 5. Dry Chemistry
- 6. Biosensors

**France:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

**Germany:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

**Italy:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

**Japan:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

**Spain:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

**U.K.:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

**U.S.A.:** Market Size, Growth and Major Suppliers'  
Sales and Market Shares

## Table of Contents (Continued)

### **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

### **Competitive Assessments**

- Abbott Laboratories
- AdnaGen
- Beckman Coulter/Danaher
- Biomedical Diagnostics
- BioMerieux
- Bio-Rad
- Dako
- DiaSorin
- Eiken

## Table of Contents (Continued)

- Fujirebio
- Instrumentation Laboratory
- Kyowa Medex
- Matritech
- Ortho-Clinical Diagnostics
- Roche
- Siemens
- Sysmex
- Thermo Fisher
- Tosoh
- Wako
- Wallac/PE

## **List of Tables**

Major Companies Developing or Marketing  
Albumin Tests

Major Companies Developing or Marketing  
Alkaline Phosphatase Tests

Major Companies Developing or Marketing  
ALT/SGPT Tests

Major Companies Developing or Marketing  
Amylase Tests

Major Companies Developing or Marketing  
AST/SGOT Tests

Major Companies Developing or Marketing  
Bilirubin Tests

Major Companies Developing or Marketing  
Blood Gas Analyzers

Major Companies Developing or Marketing  
BUN Tests

Major Companies Developing or Marketing  
Calcium Tests

Major Companies Developing or Marketing  
Cholesterol Tests

Major Companies Developing or Marketing  
Creatinine Tests

Major Companies Developing or Marketing  
Electrolyte Tests

## **List of Tables (continued)**

Major Companies Developing or Marketing  
GGT Tests

Major Companies Developing or Marketing  
Glucose Tests

Major Companies Developing or Marketing  
HDL Tests

Major Companies Developing or Marketing  
Iron Tests

Major Companies Developing or Marketing  
LDH Tests

Major Companies Developing or Marketing  
Magnesium Tests

Major Companies Developing or Marketing  
Phosphorus Tests

Major Companies Developing or Marketing  
Protein Tests

Major Companies Developing or Marketing  
Triglycerides Tests

Major Companies Developing or Marketing  
Uric Acid Tests

France, Laboratories Performing  
Clinical Chemistry Tests By Market Segment

France, Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

France, Commercial/Private Laboratories  
Performing Clinical Chemistry Tests  
By Annual Test Volume

## **List of Tables (continued)**

France, Routine Chemistry Test Volume  
Forecast By Market Segment

France, Tumor Markers and Special Chemistry  
Test Volume Forecast By Market Segment

France, All Market Segments, Profiles,  
Panels and Individual Tests Forecast

France, Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

France, Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

France, All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

France, Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

France, Commercial/Private Laboratories,  
Routine Chemistry Test Volume  
Forecast by Assay

France, All Market Segments, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

France, Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

France, Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

## **List of Tables (continued)**

France, Routine Chemistry Reagent Market  
Forecast By Market Segment

France, Tumor Markers and Special Chemistry  
Reagent Market Forecast By Market Segment

France, All Market Segments, Routine  
Chemistry Reagent Market Forecast by Assay

France, Hospital Laboratories, Routine  
Chemistry Reagent Market Forecast by Assay

France, Commercial/Private Laboratories,  
Routine Chemistry Reagent Market Forecast by Assay

France, All Market Segments, Tumor Markers  
and Special Chemistry Reagent Market  
Forecast by Assay

France, Hospital Laboratories, Tumor Markers  
and Special Chemistry Reagent Market  
Forecast by Assay

France, Major Suppliers of Clinical  
Chemistry Diagnostic Products, Estimated Sales  
and Market Shares

Germany, Laboratories Performing Clinical Chemistry  
Tests By Market Segment

Germany, Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

Germany, Commercial/Private Laboratories  
Performing Clinical Chemistry Tests  
By Annual Test Volume

## **List of Tables (continued)**

Germany, Routine Chemistry Test Volume  
Forecast By Market Segment

Germany, Tumor Markers and Special  
Chemistry Test Volume Forecast By Market  
Segment

Germany, All Market Segments, Profiles,  
Panels and Individual Tests Forecast

Germany, Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

Germany, Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

Germany, Physician Offices/Group Practices,  
Profiles, Panels and Individual Tests Forecast

Germany, All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

Germany, Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

Germany, Commercial/Private Laboratories,  
Routine Chemistry Test Volume  
Forecast by Assay

Germany, Physician Offices/Group Practices,  
Routine Chemistry Test Volume  
Forecast by Assay

Germany, All Market Segments, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

Germany, Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

## **List of Tables (continued)**

Germany, Commercial/Private Laboratories, Tumor Markers and Special Chemistry Test Volume Forecast by Assay

Germany, Physician Offices/Group Practices, Tumor Markers and Special Chemistry Test Volume Forecast by Assay

Germany, Routine Chemistry Reagent Market Forecast By Market Segment

Germany, Tumor Markers and Special Chemistry Reagent Market Forecast By Market Segment

Germany, All Market Segments, Routine Chemistry Reagent Market Forecast by Assay

Germany, Hospital Laboratories, Routine Chemistry Reagent Market Forecast by Assay

Germany, Commercial/Private Laboratories, Routine Chemistry Reagent Market Forecast by Assay

Germany, Physician Offices/Group Practices, Routine Chemistry Reagent Market Forecast by Assay

Germany, All Market Segments, Tumor Markers and Special Chemistry Reagent Market Forecast by Assay

Germany, Hospital Laboratories, Tumor Markers and Special Chemistry Reagent Market Forecast by Assay

Germany, Commercial/Private Laboratories, Tumor Markers and Special Chemistry Reagent Market Forecast by Assay

## **List of Tables (continued)**

Germany, Physician Offices/Group Practices,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

Germany, Major Suppliers of Clinical  
Chemistry Diagnostic Products, Estimated Sales  
and Market Shares

Italy, Laboratories Performing Clinical Chemistry  
Tests By Market Segment

Italy, Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

Italy, Commercial/Private Laboratories  
Performing Clinical Chemistry Tests  
By Annual Test Volume

Italy, Routine Chemistry Test Volume  
Forecast By Market Segment

Italy, Tumor Markers and Special Chemistry  
Test Volume Forecast By Market Segment

Italy, All Market Segments, Profiles,  
Panels and Individual Tests Forecast

Italy, Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

Italy, Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

Italy, All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

Italy, Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

## **List of Tables (continued)**

Italy, Commercial/Private Laboratories,  
Routine Chemistry Test Volume  
Forecast by Assay

Italy, All Market Segments, Tumor Markers  
and Special Chemistry Test Volume Forecast

Italy, Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

Italy, Commercial/Private Laboratories, Tumor  
Markers and Special Chemistry Test Volume  
Forecast by Assay

Italy, Routine Chemistry Reagent Market  
Forecast By Market Segment

Italy, Tumor Markers and Special Chemistry  
Reagent Market Forecast By Market Segment

Italy, All Market Segments, Routine  
Chemistry Reagent Market Forecast by Assay

Italy, Hospital Laboratories, Routine  
Chemistry Reagent Market Forecast by Assay

Italy, Commercial/Private Laboratories,  
Routine Chemistry Reagent Market  
Forecast by Assay

Italy, All Market Segments, Tumor Markers  
and Special Chemistry Reagent Market  
Forecast by Assay

Italy, Hospital Laboratories, Tumor Markers  
and Special Chemistry Reagent Market  
Forecast by Assay

## **List of Tables (continued)**

Italy, Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

Italy, Major Suppliers of Clinical  
Chemistry Diagnostics Products, Estimated Sales  
and Market Shares

Japan, Laboratories Performing Clinical Chemistry  
Testing By Market Segment

Japan, Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

Japan, Commercial/Private Laboratories  
Performing Clinical Chemistry Tests  
By Annual Test Volume

Japan, Routine Chemistry Test Volume  
Forecast By Market Segment

Japan, Tumor Markers and Special Chemistry  
Test Volume Forecast By Market Segment

Japan, All Market Segments, Profiles,  
Panels and Individual Tests Forecast

Japan, Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

Japan, Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

Japan, All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

Japan, Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

## **List of Tables (continued)**

Japan, Commercial/Private Laboratories,  
Routine Chemistry Test Volume  
Forecast by Assay

Japan, All Market Segments, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

Japan, Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

Japan, Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

Japan, Routine Chemistry Reagent Market  
Forecast By Market Segment

Japan, Tumor Markers and Special Chemistry  
Reagent Market Forecast By Market Segment

Japan, All Market Segments, Routine  
Chemistry Reagent Market Forecast by Assay

Japan, Hospital Laboratories, Routine  
Chemistry Reagent Market Forecast by Assay

Japan, Commercial/Private Laboratories,  
Routine Chemistry Reagent Market  
Forecast by Assay

Japan, All Market Segments, Tumor Markers  
and Special Chemistry Reagent Market  
Forecast by Assay

Japan, Hospital Laboratories, Tumor Markers  
and Special Chemistry Reagent Market  
Forecast by Assay

## **List of Tables (continued)**

Japan, Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

Japan, Major Suppliers of Clinical Chemistry  
Diagnostic Products, Estimated Sales and  
Market Shares

Spain, Laboratories Performing Clinical Chemistry  
Testing By Market Segment

Spain, Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

Spain, Commercial/Private Laboratories  
Performing Clinical Chemistry Tests  
By Annual Test Volume

Spain, Routine Chemistry Test Volume  
Forecast By Market Segment

Spain, Tumor Markers and Special Chemistry  
Test Volume Forecast By Market Segment

Spain, All Market Segments, Profiles,  
Panels and Individual Tests Forecast

Spain, Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

Spain, Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

Spain, Ambulatory Care Centers,  
Profiles, Panels and Individual Tests Forecast

Spain, All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

## **List of Tables (continued)**

Spain, Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

Spain, Commercial/Private Laboratories,  
Routine Chemistry Test Volume  
Forecast by Assay

Spain, Ambulatory Care Centers,  
Routine Chemistry Test Volume  
Forecast by Assay

Spain, All Market Segments, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

Spain, Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume  
Forecast by Assay

Spain, Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

Spain, Ambulatory Care Centers,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

Spain, Routine Chemistry Reagent Market  
Forecast By Market Segment

Spain, Tumor Markers and Special Chemistry  
Reagent Market Forecast By Market Segment

Spain, All Market Segments, Routine  
Chemistry Reagent Market Forecast by Assay

Spain, Hospital Laboratories, Routine  
Chemistry Reagent Market Forecast by Assay

## **List of Tables (continued)**

Spain, Commercial/Private Laboratories,  
Routine Chemistry Reagent Market Forecast  
by Assay

Spain, Ambulatory Care Centers,  
Routine Chemistry Reagent Market Forecast  
by Assay

Spain, All Market Segments, Tumor Markers  
and Special Chemistry Reagent Market Forecast  
by Assay

Spain, Hospital Laboratories, Tumor Markers  
and Special Chemistry Reagent Market Forecast  
by Assay

Spain, Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

Spain, Ambulatory Care Centers,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

Spain, Major Suppliers of Clinical Chemistry  
Diagnostics Products, Estimated Sales  
And Market Shares

U.K., Laboratories Performing Clinical Chemistry  
Testing By Market Segment

U.K., Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

U.K., Routine Chemistry Test Volume  
Forecast By Market Segment

U.K., Tumor Markers and Special Chemistry  
Test Volume Forecast By Market Segment

## **List of Tables (continued)**

U.K., All Market Segments, Profiles,  
Panels and Individual Tests Forecast

U.K., Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

U.K., Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

U.K., All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

U.K., Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

U.K., Commercial/Private Laboratories,  
Routine Chemistry Test Volume Forecast  
by Assay

U.K., All Market Segments, Tumor Markers  
and Special Chemistry Test Volume Forecast  
by Assay

U.K., Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume Forecast  
by Assay

U.K., Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

U.K., Routine Chemistry Reagent Market  
Forecast By Market Segment

U.K., Tumor Markers and Special Chemistry  
Reagent Market Forecast By Market Segment

U.K., All Market Segments, Routine  
Chemistry Reagent Market Forecast by Assay

## **List of Tables (continued)**

U.K., Hospital Laboratories, Routine  
Chemistry Reagent Market Forecast  
by Assay

U.K., Commercial/Private Laboratories,  
Routine Chemistry Reagent Market Forecast  
by Assay

U.K., All Market Segments, Tumor Markers  
and Special Chemistry Reagent Market Forecast  
by Assay

U.K., Hospital Laboratories, Tumor Markers  
and Special Chemistry Reagent Market Forecast  
by Assay

U.K., Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

U.K., Major Suppliers of Clinical Chemistry  
Diagnostic Products, Estimated Sales  
And Market Shares

U.S.A., Laboratories Performing Clinical Chemistry  
Testing By Market Segment

U.S.A., Hospital Laboratories Performing  
Clinical Chemistry Tests By Bed Size

U.S.A., Commercial/Private Laboratories  
Performing Clinical Chemistry Tests  
By Annual Test Volume

U.S.A., Routine Chemistry Test Volume  
Forecast By Market Segment

U.S.A., Tumor Markers and Special Chemistry  
Test Volume Forecast By Market Segment

## **List of Tables (continued)**

U.S.A., All Market Segments, Profiles,  
Panels and Individual Tests Forecast

U.S.A., Hospital Laboratories, Profiles,  
Panels and Individual Tests Forecast

U.S.A., Commercial/Private Laboratories,  
Profiles, Panels and Individual Tests Forecast

U.S.A., Physician Offices/Group Practices,  
Profiles, Panels and Individual Tests Forecast

U.S.A., All Market Segments, Routine  
Chemistry Test Volume Forecast by Assay

U.S.A., Hospital Laboratories, Routine  
Chemistry Test Volume Forecast by Assay

U.S.A., Commercial/Private Laboratories,  
Routine Chemistry Test Volume Forecast  
by Assay

U.S.A., Physician Offices/Group Practices,  
Routine Chemistry Test Volume Forecast  
by Assay

U.S.A., All Market Segments, Tumor Markers  
and Special Chemistry Test Volume Forecast  
by Assay

U.S.A., Hospital Laboratories, Tumor Markers  
and Special Chemistry Test Volume Forecast  
by Assay

U.S.A., Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

U.S.A., Physician Offices/Group Practices,  
Tumor Markers and Special Chemistry Test  
Volume Forecast by Assay

## **List of Tables (continued)**

U.S.A., Routine Chemistry Reagent Market  
Forecast By Market Segment

U.S.A., All Market Segments, Routine  
Chemistry Reagent Market Forecast by Assay

U.S.A., Hospital Laboratories, Routine  
Chemistry Reagent Market Forecast by Assay

U.S.A., Commercial/Private Laboratories,  
Routine Chemistry Reagent Market Forecast  
by Assay

U.S.A., Physician Offices/Group Practices,  
Routine Chemistry Reagent Market Forecast  
by Assay

U.S.A., All Market Segments, Tumor Markers  
and Special Chemistry Reagent Market Forecast  
by Assay

U.S.A., Hospital Laboratories, Tumor Markers  
and Special Chemistry Reagent Market Forecast  
by Assay

U.S.A., Commercial/Private Laboratories,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

U.S.A., Physician Offices/Group Practices,  
Tumor Markers and Special Chemistry Reagent  
Market Forecast by Assay

U.S.A., Major Suppliers of Clinical Chemistry  
Diagnostics Products, Estimated Sales and  
Market Shares