

2013 Therapeutic Drug Monitoring (TDM) Market in the US: Hospitals, Commercial Labs, Physician Offices

Table of Contents

Introduction

Worldwide Market and Technology Overview

A. Major Therapeutic Drug Monitoring Tests

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

B. 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 and other suppliers

Table of Contents (Continued)

C. 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
 - d. Radioimmunoassays (RIA)
 - e. Immunoprecipitation
 - f. Affinity Chromatography
3. Tandem Mass Spec
4. IT and Automation
5. Dry Chemistry
6. Biosensors

D. Market Size, Growth and Major Supplier Shares

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

Table of Contents (Continued)

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
- Agilent Technologies
- Beckman Coulter/Danaher
- Biomedical Diagnostics
- BioMerieux
- Bio-Rad
- DiaSorin
- Eiken
- Fujirebio/Innogenetics
- Instrumentation Laboratory
- Kyowa Medex
- Matritech/Alere
- Ortho-Clinical Diagnostics
- Quest Diagnostics
- Roche
- Siemens
- Sysmex
- Thermo Fisher
- Tosoh
- Wako
- Wallac/PE

List of Tables

Major Companies Developing or Marketing
TDM Tests

Major Companies Developing or Marketing
Digoxin Tests

Major Companies Developing or Marketing
Lithium Tests

Major Companies Developing or Marketing
Phenytoin Tests

Major Companies Developing or Marketing
Theophylline Tests

Major Companies Developing or Marketing
Valproic Tests

Major Companies Developing or Marketing
Biosensors for Genetic Disease Testing

U.S.A., Laboratories Performing TDM
Tests By Market Segment

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

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

U.S.A., TDM Test Volume Forecast
By Market Segment

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

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

List of Tables (Continued)

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

U.S.A., TDM Reagent Market Forecast
By Market Segment

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

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

U.S.A., Physician Office/Group Practices,
TDM Reagent Market Forecast by Assay

U.S.A., Major Suppliers of Immunodiagnostic Products,
Estimated Market Shares