## 2013 Therapeutic Drug Monitoring (TDM) Market in the UK: Hospitals and Commercial Labs

## 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. Topirimate
- 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

## 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.K., Laboratories Performing TDM Tests By Market Segment

U.K., Hospital Laboratories Performing TDM Tests By Bed Size

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

U.K., TDM Test Volume Forecast By Market Segment

U.K., Hospital Laboratories, TDM Test Volume Forecast by Assay

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

U.K., TDM Reagent Market Forecast By Market Segment

# List of Tables (continued)

U.K., Hospital Laboratories, TDM Reagent Market Forecast by Assay

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

U.K., Major Suppliers of Immunodiagnostic Products, Estimated Market Shares