

ROUTINE AND SPECIAL CHEMISTRY AND IMMUNODIAGNOSTIC TESTS
Current Assays and Companies Developing
New Technologies and Products

Table of Contents

A. Routine Clinical Chemistry Tests

Introduction

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. Cardio CRP
11. Calcium
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. Phenytoin
12. NAPA/Procainamide
13. Quinidine
14. Sirolimus
15. Tacrolimus
16. Topiramate
17. Theophylline
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. Prolactin
8. PTH/IO PTH
9. T3
10. T3 Uptake
11. Free T3
12. TPO Ab
13. Thyroglobulin Ab
14. Thyroxine (T4)
15. Free T4
16. TBG
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

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

Major Companies Developing or Marketing
GGT Tests

Major Companies Developing or Marketing
Glucose Tests

List of Tables (continued)

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

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

List of Tables (continued)

Major Companies Developing or Marketing
Theophylline Tests

Major Companies Developing or Marketing
Valproic Acid Tests

Major Companies Developing or Marketing
FSH Tests

Major Companies Developing or Marketing
HCG Tests

Major Companies Developing or Marketing
LH Tests

Major Companies Developing or Marketing
Prolactin Tests

Major Companies Developing or Marketing
T3 Tests

Major Companies Developing or Marketing
T4 Tests

Major Companies Developing or Marketing
TSH Tests

Major Companies Developing or Marketing
AFP Tests

Major Companies Developing or Marketing
CEA Tests

Major Companies Developing or Marketing
Ferritin Tests

Major Companies Developing or Marketing
Occult Blood Tests

Major Companies Developing or Marketing
Prostatic Acid Phosphatase Tests

List of Tables (continued)

Major Companies Developing or Marketing
PSA Tests

Major Companies Developing or Marketing
Vitamin B-12/Folate Tests

Major Companies Developing or Marketing
CRP Tests

Major Companies Developing or Marketing
Drugs of Abuse Tests