EDITORIAL

Trends in Immunoassays of Prostate-Specific Antigen: Serum Complexes and Ultrasensitivity

Robert L. Vessella 2035

REVIEW

Urinary Selenium Concentrations

Malte Sanz Alaejos and Carlos Diaz Romero 2040

ARTICLES

Detection and Characterization of Blocking-Type Anti-Acetylcholine Receptor Antibodies in Sera from Patients with Myasthenia Gravis

Hirokazu Hara, Kyozo Hayashi, Kiyoe Ohta, Nobuyuki Itoh, Hiroshi Nishitani, and Mitsuhiro Ohta 2053

Assay Instrument-Dependent Matrix Effects in Standardization of Cholesterol Measurements

Parvin P. Waymack, W. Greg Miller, and Gary L. Myers 2058

Abbott AxSYM™ Random and Continuous Access Immunoassay System for Improved Workflow in the Clinical Laboratory

Jane Smith, Gene Osikowicz, and others 2063

Assay of D-Dimer Based on Immunofiltration and Staining with Gold Colloids

Geir O. Gogstad, Siri Dale, Frank Brosstad, Øystein Brandsnes, Jostein Hottlund, Einar Mork, Eli Gärtnert, and Stig M. Borch 2070

Interpretation of Results for Tumor Markers on the Basis of Analytical Imprecision and Biological Variation

György Söllértmos, Vibeke Schieler, Dorte Nielsen, Torben Skovgaard, and Per Dombrowskowy 2077

Simultaneous Assay of α-Fetoprotein and Free β Subunit of Human Chorionic Gonadotropin by Dual-Label Time-Resolved Immunofluorometric Assay

Kim Pettersson, Henrik Althann, Ulf-Håkan Stenman, Ursula Turpené, Mikko Suonpää, Juanita Söderholm, Severin Olesen Larsen, and Bent Nørgaard-Pedersen 2084

Fully Automated Assay of Glycohemoglobin with the Abbott IMX® Analyzer: Novel Approaches for Separation and Detection

David H. Wilson, Jerry P. Bogacz, Cathy M. Forsythe, Philip J. Turk, Theresa L. Lane, Robin C. Gates, and Douglas R. Brandt 2090

Double-Label Time-Resolved Immunofluorometric Assay of Prostate-Specific Antigen and of Its Complex with α1-Antichymotrypsin

Jari Leinonen, Timo Lövgren, Timo Vornanen, and Ulf-Håkan Stenman 2098
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passive Hemagglutination Inhibition Test for Diagnosis of Brown Recluse Spider Bite Envenomation</td>
<td>Steven M. Barrett, Maxine Romine-Jenkins, and Kenneth E. Blick</td>
</tr>
<tr>
<td>Ultrasensitive Time-Resolved Immunofluorometric Assay of Prostate-Specific Antigen in Serum and Preliminary Clinical Studies</td>
<td>He Yu and Eleftherios P. Diamandis</td>
</tr>
<tr>
<td>Carbohydrate-Deficient Transferrin Quantified by HPLC to Determine Heavy Consumption of Alcohol</td>
<td>Jan-Olof Jeppsson, Hans Kristensson, and Carlo Fimiani</td>
</tr>
<tr>
<td>Determination of Apolipoprotein E Genotypes by Single-Strand Conformational Polymorphism</td>
<td>Michael Y. Tsai, Peg Suess, Kerry Schwichtenberg, John H. Eckfeldt, Jiana Yuan, Mendel Tuchman, and Donald Hunninghake</td>
</tr>
<tr>
<td>Apolipoprotein E Polymorphism in a Healthy Swedish Population: Variation of Allele Frequency with Age and Relation to Serum Lipid Concentrations</td>
<td>Gösta Eggertsen, Ragnar Tegelman, Sverker Ericsson, Bo Angelin, and Lars Berglund</td>
</tr>
<tr>
<td>Enzymatic Rate Assay of Creatinine in Serum and Urine</td>
<td>Tuyosi Fujita, Shigeru Takata, and Yoshiko Sunahara</td>
</tr>
<tr>
<td><strong>SCIENTIFIC NOTES</strong></td>
<td></td>
</tr>
<tr>
<td>Enzyme Immunoassay, Kinetic Microparticle Immunoassay, Radioimmunoassay, and Fluorescence Polarization Immunnoassay Compared for Drugs-of-Abuse Screening</td>
<td>David A. Armbroster, Robert H. Schwarzhoff, Edward C. Hubster, and Monica K. Liserio</td>
</tr>
<tr>
<td>Highly Sensitive Enzyme Immunoassay of Proinsulin Immunoreactivity with Use of Two Monoclonal Antibodies</td>
<td>Lise Lund Kjems, Michael E. Ræder, Bo Dinesen, Svend G. Harting, Peer Robert Jørgensen, and Christian Binder</td>
</tr>
<tr>
<td>Modified Assay of Prostate-Specific Antigen with a Detection Limit &lt;0.01 µg/L</td>
<td>Raymond J. Liedtke, Gery Kroon, and John D. Batjer</td>
</tr>
<tr>
<td>Competitive Time-Resolved Immunofluorometric Assay for Quantifying Carbonic Anhydrase VI in Saliva</td>
<td>Seppo Parkkila, Anna-Kaisa Parkkila, Tiina Vierjoki, Tom Ståhlin, and Hannu Rajaniemi</td>
</tr>
<tr>
<td>Competitive Assay to Improve the Specificity of Detection of Single-Point Mutations in α1-Antitrypsin Deficiency</td>
<td>Andar Gunneberg, Graeme Scobie, Karen Hayes, and Noor Kalsheker</td>
</tr>
<tr>
<td>Quantification of the Cross-Link Pento-sidin in Serum from Normal and Uremic Subjects</td>
<td>Masaaki Takahashi, Kazuhiro Kushida, Kouichi Kawana, Chiaki Ishihara, Masashi Denda, Tetsuo Inoue, and Kentaro Horiiuchi</td>
</tr>
<tr>
<td>Chemiluminescent Third-Generation Assay (Amerlite TSH-30) of Thyroid-Stimulating Hormone in Serum or Plasma Assessed</td>
<td>Ewan Wilkinson, Peter W. H. Rae, Kirsty J. T. Thomson, Anthony D. Toft, Carole A. Spencer, and Geoffrey J. Beckett</td>
</tr>
<tr>
<td>Homogeneous Immunofluorometric Assays of α-Fetoprotein with Macroporous, Monosized Particles and Flow Cytometry</td>
<td>Jomar Frangen, Ruth Schmid, Bente Kierulf, Kjell Nustad, Elisabeth Paus, Arvid Berge, and Tore Lindmo</td>
</tr>
<tr>
<td>Kinetic Determination of Serum Adenosine Deaminase</td>
<td>Heila M. Oosthuizen, Jacobus P. J. Ungerer, and Siegbert H. Bissbort</td>
</tr>
</tbody>
</table>
“Hot Spots” Mutation Analysis of p53 Gene in Gastrointestinal Cancers by Amplification of Naturally Occurring and Artificially Created Restriction Sites

Pao-Huei Chen, Shyr-Yi Lin, Chung-Kwe Wang, Yi-Jen Chen, Te-Chuan Chen, and Jan-Gowth Chang

Volume 39 Number 10
October 1993

TECHNICAL BRIEFS

Correcting for Contamination from Hemolysis in Measurements of Lactate Dehydrogenase Isoenzyme 1 in Serum from Patients with Testicular Germ Cell Tumors

Finn Edler von Eyben, Per Hytoft Petersen, Ebbe Lindegaard Madsen, Ole Blaabjerg, Bent Nørgaard Pedersen, and Jørgen Arends

Automated Measurement of Mitochondrial Aspartate Aminotransferase by Selective Proteolysis with Proteinase K

Mauro Panteghini, Roberto Bonora, and Franca Pagani

LETTERS

Methods for Evaluation of Protein Components in Bronchoalveolar Lavage Fluids

Armando Capelli, Carlo G. Cerutti, Mirco Lusuardi, Marilena Colombo, and Claudio F. Donner

Determination of Malonaldehyde in Hyperlipemic Sera

Karim Keddad, Marc Conti, Christiane Baussan, and Alain Lemonnier

Nonlinearity of Calcium Measurement on the Kodak Ektachem at Concentrations >110 g/L (Slide Generations 18 and 19)

Adrain C. McClellan and Mitchell G. Scott

Digoxin Immunoassay and Chinese Medicine

Ryo Fushimi and Nobuyuki Amino (Response)

N. S. Panesar

Mini-Gel PAGE for Enhanced Resolution of Polymerase Chain Reaction Detection of ΔF508 Deletion in Cystic Fibrosis

Gregory S. Makowski, Jaber Aslanzadeh, and Sidney M. Hopper

Improved Extraction, Sensitivity, Specificity, and Stability for Measuring Fentanyl in Plasma by Gas Chromatography with Nitrogen Detection

Sylvie Laganière, Lynne Goernert, Keith Gallicano, and Rein Olton

Increased Serum Creatine Kinase Activity after a Mild Hypoergic Episode

John Williams, Rosemary Spillane, and Najmuuddin Banatwalla

Run-Rejection Survey to Assess Benefits of Training in Concepts of Quality Control and Total Quality Management

M. Dean Whiting

Analytical Inaccuracy for Folic Acid with a Popular Commercial Vitamin B12/Folate Kit

Steven Levine (Response)

Richard B. Edwards

Rapid Glycohemoglobin Method Revisited

Robert Jackson (Response)

Laurence M. Demers

continued on next page
Automated Enzymatic Determination of Inulin

Stanley Hellerstein, Max Berenborn, Uri Alon, and Bradley A. Warady

2211

Human Chorionic Gonadotropin as a Thyroid Stimulator: Time for Reassessment?

Alun Price and R. Lee Kennedy (Response)
Stephan Madersbacher and Peter Berger

2212

BOOK REVIEWS

Melvin R. Glick and Jan S. Krouwer

2214

THE CLINICAL CHEMIST

David E. Bruns

2216