

Automation of specific protein estimation in clinical chemistry.

University of Birmingham - Automated Protein Biomarker Analysis: on



Description: -

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Notes: Thesis (Ph.D.)-University of Birmingham, Dept. of Experimental Pathology.

This edition was published in 1974



Filesize: 68.107 MB

Tags: #Clinical #Chemistry #Quality #Controls

Total Protein Determination in Urine: Elimination of a Differential Response between the Coomassie Blue and Pyrogallol Red Protein Dye

Critical care meters are also available that can estimate a variety of analytes, including glucose, urea, and electrolytes; however, these have not been extensively validated on nonhuman blood, and results should be interpreted with caution. UV absorption method is not ideal for protein mixtures as different proteins have differing aromatic amino acid content- varying the absorption characteristics. Commercial pool serum prepared at the Croatian Institute of Transfusion Medicine Zagreb, Croatia was also used for the assessment.

CLINICAL CHEMISTRY ELECTROLYTES

The bias observed in some external quality-assessment samples may have been attributable to matrix effects on stored samples because fresher nonfrozen patient samples showed better agreement between both instruments.

Automation

The on-board Aeroset assay protocol for IgA and IgM includes an automated dilution step, so that each sample is analyzed undiluted and diluted, and a ratio is calculated. The various accessory reagents and alternative versions of these two assays accommodate many other particular sample needs. Obviously, the most accurate results are possible only when unknown and standard samples are treated identically.

Clinical Pathology in Non

The effect of endogenous interference by either hemolysis or lipemia was evaluated according to NCCLS protocol EP7-P on haptoglobin and apo B.

Clinical Chemistry Quiz: Would You Pass?

The net absorbance for each protein is expressed as a ratio to the net absorbance for BSA e.

Specific Proteins

A large will accept samples for up to about 700 different kinds of tests. Consolidation of these specific-protein assays on a single chemistry analyzer can improve laboratory efficiency through decreased analyzer maintenance and decreased sample splitting. However, protein dye-binding assays are simple, rapid, and readily automated and are becoming increasingly popular for the clinical determination of total protein in urine.

Related Books

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