



Determination of Serum Protein Fractions



Ideal for teaching in Biochemistry. Thanks to the adaptive carousel, samples can be directly injected in an Eppendorf vial.

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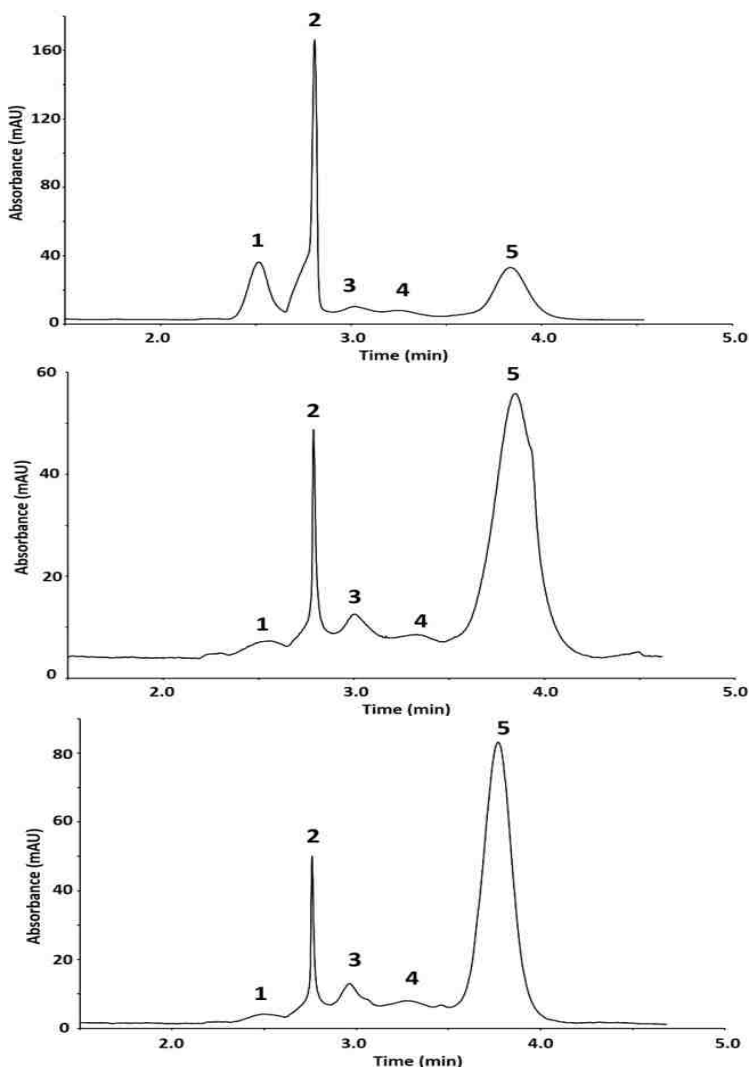
INTRODUCTION

The method presents the determination of relative amounts of albumin and globulins in human serum using the Wyn-CE system. Identification and quantitation of the analysed proteins is obtained by direct UV absorbance detection at 200 nm.

SEPARATION CONDITIONS

Buffer : Borate, pH 10.0
Capillary : bare-fused silica, L = 30 cm, l = 22 cm, ID = 50 μ m
Injection : hydrodynamic, 50 mbar, 8 s
Voltage : +10 kV
Detection : 200 nm, direct
Temperature : 20 $^{\circ}$ C

Examples of Serum Protein Fraction Profiles



Identification :

- 1- γ -globulin
- 2- β -globulin
- 3- α 2-globulin
- 4- α 1-globulin
- 5- Albumin

Advantages of the Capillary Electrophoresis compared to Gel Electrophoresis

- Very Fast Analysis
- Easy to make buffer
- Sample prep : single dilution of serum
- Precision in Quantitative Analysis
- Low Cost of use

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