

Albumin

Albumin was performed on a Hitachi Model 737 multichannel analyzer (Roche Diagnostics, Indianapolis, IN).

At the reaction pH, the bromcresol purple (BCP) in the Boehringer Mannheim Diagnostics (RD) albumin system reagent binds selectively with albumin. This reaction is based on a modification of a method described by Doumas (1). Although BCP is structurally similar to the conventional bromcresol green (BCG), its pH color change interval is higher (5.2 - 6.8) than the color change interval for BCG (3.8 - 5.4), thus reducing the number of weak electrostatic dye/protein interactions. The BCP system eliminates many of the nonspecific reactions with other serum proteins as a result of the increased pH. In addition, the use of a sample blank eliminates background spectral interferences not completely removed by bichromatic analyses.

1. Procedural insert: Hitachi 737 AST/IFCC. Indianapolis: Boehringer Mannheim Corporation, 1991. Biochemistry Profile in Serum -- NHANES III

-from *Laboratory Procedures Used for the Third National Health and Nutrition Examination Survey (NHANES III) 1988-1994*
Elaine W. Gunter, Brenda G. Lewis, and Sharon M. Koncikowski, 1996