

The so called protein error of pH indicators is often used for protein determination in body fluids. A popular dye for this purpose is the bromophenol blue. A most common calibration standard, bovine serum albumin (or human serum albumin) is used. In this Thesis, I examined the influence of urea on the interaction between bovine serum albumin and bromophenol blue at pH 3,23. Addition of urea in amount corresponding to physiological values in urine (0,2-0,4 mol/l) does not cause changes in absorbance exceeding the experimental error (1 %); the same is true up to 4 mol/l of urea. Higher concentration of urea (6 mol/l) causes a considerable decrease of absorbance (up to 29 %), probably as a result of bovine serum albumin denaturation.