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Method for Molecular Weight Estimation of Non-denatured Protein in Polyacrylamide Gradient Gel Electrophoresis*

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An improved method to estimate molecular weights of non-denatured proteins in polyacrylamide gel electrophoresis is described. Plotting the logarithm of the relative mobilities of proteins versus gel concentrations (Ferguson-plot) produces lines, whose slopes are related to molecular weights. Using a 9 cm×9 cm×0.5 mm gradient gel (T4% C5%—T20% C5%), molecular weights of non-denatured proteins (molecular weight range of 1×10^4 — 20×10^4) can be estimated in a simple manipulation.

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