

Abstract

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[Object] To provide a method for electrophoresing nucleic acids, which enables highly efficiently concentrating and purifying nucleic acids quickly by simple operation.

[Solving Means] A method of electrophoresis includes electrophoresing a nucleic acid in which an intercalator having an anionic functional group has been inserted. The method includes mixing a sample containing a nucleic acid, a compound having a functional group which undergoes dehydration condensation reaction with carboxyl groups included in substances contained in the sample and a condensing agent of dehydration condensation reaction; and electrophoresing the nucleic acid. The method of concentrating and recovering nucleic acids, by increasing the negative charge of the nucleic acid bound with the intercalator, can increase electrophoretic velocity of nucleic acids. The method of electrophoresing nucleic acids, by subjecting carboxyl groups in the substances in the sample to dehydration condensation reaction, can stably separate nucleic acids and substances by electrophoresis.

[Selected Drawing] Fig. 1