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An analytical model for enantioseparation process in capillary electrophoresis

G.A. Ranzuglia, S.J. Manzi, M.R. Gomez, R.E. Belardinelli, V.D. Pereyra



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Highlight

- An analytical model of enantioseparation in capillary electrophoresis experiment is proposed.
- The mobilities of the enantiomers are analyzed from the evolution of the distributions of particles in the capillary.
- The signals in a capillary electrophoresis experiment are reproduced and the behavior of enantioseparation with chiral concentration is in accordance with the well known Wren and Rowe formula.
- A capillary electrophoresis experiment for the enantiomeric separation of the (\pm) chlorpheniramine/ β -cyclodextrin system is studied and reproduced by both the analytical model and kinetic Monte Carlo simulation.

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