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Authors: Yaqi Yao, Li Zhou, Meng Li, Xingjie Guo



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The cation-selective exhaustive injection and sweeping capillary electrophoresis method for the analysis of chlorpheniramine enantiomers in rat plasma

Yaqi Yao, Li Zhou, Meng Li, Xingjie Guo*

Affiliation: School of Pharmacy, Shenyang Pharmaceutical University, Shenyang, Liaoning Province, P. R. China

Correspondence: Xingjie Guo, School of Pharmacy, Shenyang Pharmaceutical University, Wenhua Road 103, Shenyang, Liaoning Province, P. R. China Email: syykdx410@163.com Fax: +86-24-2398 6285

Highlights

- Cation-selective exhaustive injection and sweeping method was established and validated.
- Parameters influencing separation and enhancement efficiency were investigated.
- Successfully applied the method to pharmacokinetic study of chlorpheniramine enantiomers.

Abstract

Chlorpheniramine is a potent antihistaminic administered as a racemic mixture, while its clinical activity is mainly associated with the S-enantiomer. In this study, a sensitive and rapid on-line preconcentration capillary electrophoresis (CE) method, cation-selective exhaustive injection (CSEI) and sweeping method was established

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