

Results

and

Discussion



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RESEARCH ARTICLE

Application of Group I Metal Addition to the Separation of Steroids by Traveling Wave Ion Mobility Spectrometry

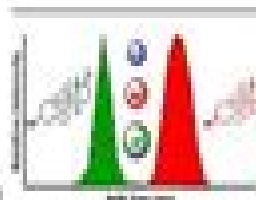


Figure 1. Traveling wave ion mobility spectrometry (TWIM) spectra of steroids. The plot shows relative intensity versus relative mobility. Three distinct peaks are visible, labeled with steroid names: Testosterone (green), Estrone (blue), and Estradiol (red). The peaks are well-resolved, indicating successful separation.

Traveling wave ion mobility spectrometry (TWIM) was applied to the separation of steroids. The results show that the addition of group I metal ions (Li⁺, Na⁺, K⁺, Rb⁺, Cs⁺) to the sample solution significantly improved the separation of steroids. The addition of Li⁺ and Na⁺ resulted in the best separation of the three steroids. The results suggest that the addition of group I metal ions is a promising method for the separation of steroids.

Keywords: Traveling wave ion mobility spectrometry, Steroids, Group I metal ions, Separation

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Introduction

Traveling wave ion mobility spectrometry (TWIM) is a powerful tool for the separation of ions. It has been widely used for the separation of various ions, including small molecules, peptides, and proteins. The addition of group I metal ions to the sample solution has been shown to improve the separation of ions.

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Sample Of Results And Discussion In A Research Paper

Yicheng Fang



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