

عنوان مقاله:

Synthesis and preparation of Beta-Cyclodextrin crosslinked by epichlorohydrine activated sepharose for the exteration and determination of Famotidine

محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

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خلاصه مقاله:

Cyclodextrin inclusion is a molecular phenomenon in which usually only one guest molecule interacts with the cavity of a Cyclodextrin molecule to become entrapped and form a stable association. Molecules or functional groups of molecules those are less hydrophilic than water, can be included in the Cyclodextrin cavity in the presence of water. In the present work, Beta cyclodextrin was immobilized on sepharose by epychlorohydrine for adsorption and extraction of famotidine in plasma and urine. This immobilization was confirmed by Fourier transform infrared spectroscopy (FT-IR), Thermogravimetric analysis (TGA), and elemental analysis (CHN). The experimental conditions like pH, contact time, temperature and strriing rate were optimized. The profile of famotidine uptake on this sorbent reflects good .accessibility of the chelating sites in the modified sepharose

کلمات کلیدی:

Cyclodextrin, Sepharose, Famotidine

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