

عنوان مقاله:

Preparation of modified nanocomposite for the preconcentration and determination of amoxicillin drug in blood plasma and urine

محل انتشار:

چهارمین کنفرانس بین المللی نوآوری های اخیر در شیمی و مهندسی شیمی (سال: 1396)

تعداد صفحات اصل مقاله: 3

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خلاصه مقاله:

A new method has been developed for the separation/preconcentration of trace level amoxicillin usinggraphene oxide immobilized on SBA-15 as a new sorbent SPE and their determination by flame atomicabsorption spectrometry (FAAS). Various in fluencing parameters on the separation and preconcentration of trace level amoxicillin such as, pH value, amount of nanoparticles, condition of eluting solution, theeffects of matrix ions were examined. The amoxicillin can be eluted from the modified SBA-15 using 1molL-1 HNO3 as adesorption reagent. The detection limit of this method for amoxicillin was 8.79 ng ml-1 and the R.S.D. was 1.6% (n=6). The proposed method has been applied to the determination of amoxicillin attrace levels in blood plasma and urine samples

کلمات کلیدی: Amoxicillin, SBA-15, blood plasma and urine

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