

## عنوان مقاله:

Evaluation Absorption of the drug terbinafine hydrochloride from aqueous solutions and biological fluids by adsorbent nano Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub>

## محل انتشار:

اولین همایش ملی تکنیک های نوین در تجهیزات و مواد آزمایشگاهی صنعت نفت ایران (سال: 1394)

تعداد صفحات اصل مقاله: 11

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## خلاصه مقاله:

The presence of pharmaceutical drugs belonging to various medicinal classes, in groundwater, surface waters, and some drinking waters is an emerging issue in environmental science. Different adsorbents including mesopores and zeolites can be employed to remove these pollutants from aqueous solutions. In the current study, the adsorption of terbinafine hydrochloride on Al<sub>2</sub>O<sub>3</sub>/Cr<sub>2</sub>O<sub>3</sub> superabsorbent from aqueous and biological solutions has been investigated. The effects of various parameters such as terbinafine hydrochloride concentration, time, pH, and the amount of adsorbent were also examined and optimized. The amounts of terbinafine hydrochloride absorbed by the nanoabsorbent increased with increasing pH. The synthesized nanoparticles were characterized by TEM, XRD, XRF methods. In addition the amount of terbinafine hydrochloride adsorption was determined using UV-Vis spectroscopy

## کلمات کلیدی:

Adsorption; Terbinafine hydrochloride; Nanoadsorbent; biological solutions

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/403967>

